



NEWS

**Denver Botanic Gardens
January 1991
Number 91-1**



Summer Internships Available in Applied Horticulture

If you know college students who would be interested in gaining work experience in horticulture, encourage them to apply for a Denver Botanic Gardens summer internship. The program begins June 10, 1991, and ends August 16. A taxable stipend of \$2,000 will be paid to each intern for the ten-week term.

Designed to provide a practical learning experience for college students of botany, biology, horticulture, landscape design and related fields, the internship provides an opportunity to work with the professional DBG staff and the volunteers involved in the daily care of the display gardens. This offers practical experience to complement regular classroom instruction.

Work experience will include planting, watering, pruning and weeding on the outside grounds; seeding,

transplanting and propagation in the greenhouses; maintaining tropical and subtropical plant displays; and attending classes, field trips, lectures and demonstrations.

To qualify for a 1991 Summer Internship in Applied Horticulture applicants must have completed their sophomore year of college with a grade point average of at least 2.5 on a scale of 4.0 and must be currently enrolled as either an undergraduate or a graduate student. Several introductory courses in botany and horticulture are prerequisites. Applications are due March 1, 1991; notification of appointment will be mailed by March 15. Forms and additional information can be obtained by writing:

Pat Pachuta
Education Director
Denver Botanic Gardens
909 York Street
Denver, CO 80206

"The Romantic Garden" To Enchant You in February

February will become an enchanted month for gardeners when "The Romantic Garden," the first symposium to focus exclusively on the importance of the contemporary romantic design movement, comes to the Gardens Saturday, February 23. Sponsored by the Arnold Arboretum of Harvard University in cooperation with Denver Botanic Gardens, the Chicago Botanic Garden and the New York Botanical Garden, the all-day symposium will bring to Denver the expertise and inspiration of five noted North American horticulturists.

Allen Patterson, director of the Royal Botanic Gardens in Hamilton, Ontario, will explore the history and philosophy of the movement from formalism to naturalism in "Nature Enchanted: Origins of the Romantic Garden."

Judith Tankard, a garden historian, author and lecturer from Newton, Massachusetts, will speak on great romantic gardens of the late 19th century in "Gardens of 'Sweet Disorder.'"

Tom Wirth of public television's "This Old House" and "The Victory Garden," will use design features of intimate European gardens to illustrate "Romantic Retreats: The Essential Elements."

Taimi Anderson, a Chicago landscape designer, lecturer and garden writer, will focus on the mystery and beauty of American personal spaces when she speaks on "American Spirit: Regional Romantic Gardens."

Gary Koller, assistant director for horticulture at the Arnold Arboretum, features color and form as he selects and combines "Plants for a Private Paradise."

Registration, which includes lunch, refreshments and handout materials, is \$96 for DBG members. For non-members it is \$106 and for students with proof of full-time status it is \$53. As a Denver Botanic Gardens member you will receive a brochure in the mail with full details.

If Our Wires Were Crossed...

Thank you for your patience during the Gardens' changeover to a new phone system.

If you experienced difficulty in reaching us, we apologize. However, thanks to the persistence of U.S. West, Hi Country Wire & Telephone and Integrated Telecom Systems, lines are now straightened out and you will notice a definite improvement in convenience and service.

Inside:

Community Garden Plots
page 2

Gardening: Hort Therapy
page 2

Classes
pages 3

Naturalist Guide Training
page 5

Vertical planter "walls" and a solar greenhouse are tools for teaching horticultural therapy.
See page 2.

1991 Community Gardening Program

You can harvest fresh vegetables from your own city garden. Don't worry if you don't have the space, because Denver Botanic Gardens does, and you can become a 1991 DBG community gardener.

The community garden program provides space to garden, materials, educational handouts and staff to answer questions. Each plot is approximately 150 square feet. You will enjoy evening socials where you can make new friends, share recipes and learn new gardening techniques.

A fee of \$40 for members and \$50 for nonmembers includes all the basic materials you'll need for your garden: fertilizer, water, educational handouts, special workshops and seed. Those who had plots in the community garden last year must register by January 28 to reserve space before registration is opened up to new gardeners. All community gardeners must participate in an orientation and will be invited to a workshop. New applicants should register for a garden plot as soon as possible. Novices and experienced gardeners alike are welcome.

You may obtain an application from the receptionist at the Denver Botanic Gardens House, 909 York Street. Call 331-4000 for more information.

Tributes

In honor of Elaine (Lainie) Jackson
Mrs. Richard Wilson

In memory of Lillian Chisholm
Burrell & Peg Gerhardt
Ruth & Harold Riecke

In memory of Mrs. Marshall Diggs
Jack & Bettye Stoffel

In memory of Mrs. Harold (Jetty) Kirchen
Solange Gignac
Ms. Syd Glick
Fran Regner

In memory of Mary R. Morgan
Betty Gertie

In memory of Ricardo Sanchez
Staff of Denver Botanic Gardens

In memory of Bertha Vanderberg
Mr. & Mrs. Ken Gaunt

In memory of Margaret Walker
Betty Gertie

Gardening: Horticultural Therapy Means More Than Talking to Your Plants

Horticultural therapists often must clarify (for those who are unfamiliar with their practice) that their therapy is not for the plants. While some therapists may indeed engage in conversation while tending their plants, this is not the reason for their art. Horticultural therapists use gardening activities to treat illnesses and to promote well-being in humans.

Gardening was used to promote physical and emotional healing in hospital settings throughout the past century. In the 1800s mental patients were forced to work in the institutional vegetable fields if they could not pay for their treatments. Remarkable things happened to them. They recovered from their illnesses faster than those who didn't garden.

Horticultural therapy programs exist in widely diverse settings:

While we no longer have such working farms at most hospitals, the use of horticulture as therapy in health care facilities has still grown in recent years. Programs exist in widely diverse settings: vocational training centers for mentally retarded adults, prisons, Veterans Administration hospitals, special education classrooms, psychiatric hospitals, retirement centers, rehabilitation hospitals, stroke centers, AIDS clinics, schools for persons with visual and hearing impairment, low income housing projects, inner city youth programs and others.

The calming effects of digging soil or tending plants benefit many. Think what it could do for a heart patient who needs to reduce stress. Notice the optimism fostered by the planting of a seed. You can find many parallels between gardening activities — preparing soil, planting, cultivating, harvesting, composting — and life, and you will recognize these values from your own personal experiences.

Horticultural therapy at DBG

The Morrison Horticultural Demonstration Center at Denver Botanic Gardens was founded in 1983 to promote a greater awareness of the therapeutic value and adaptive qualities of horticulture. It is located on 11th Avenue, across York Street from the main DBG campus. After a period of dormancy, the horticultural therapy program was revived in the fall of 1990 with the appointment of a new horticultural therapist to provide workshops, classes, public tours and consultation with health institutions interested in starting horticultural therapy programs.

The Morrison center, complete with indoor and outdoor classrooms, an attached solar greenhouse and garden plots, offers a wonderful setting for these services. The outdoor gardens contain examples of container gardening, raised beds, dwarf fruit trees and an ornamental water fountain. All of these features were designed to be easily accessible to those in wheelchairs and to gardeners who may have trouble bending or kneeling. Around the perimeter of the outdoor garden is a carefully designed sensory path which provides opportunities for stimulation of the senses through interaction with plants — touching and smelling. You can also listen to the city sounds around the garden and to the centrally located fountain.

Currently, minor revisions of the Morrison Horticultural Demonstration Center gardens are being made in order to provide information to area gardeners who may wish to create or adapt their own gardens for the special needs of family members. It will also offer better instruction to those human service providers wishing to establish or improve their horticultural therapy programs. It will be used and be accessible to all persons, including but not limited to individuals with disabilities.

For more information about the Morrison Horticultural Demonstration Center and its programs, call Rebecca Haller (331-4000). There are a variety of projects — tours, displays and publications — that could use your assistance.

Rebecca Haller is the Denver Botanic Gardens horticultural therapist. Personal and professional experiences have encouraged her strong belief in the therapeutic benefits of gardening.

Green Thumb News Number 91 — 1 January 1991

Published monthly by Denver Botanic Gardens, 909 York Street, Denver, Colorado 80206, and edited by Larry Latta. Subscription to this newsletter is a benefit of membership in Denver Botanic Gardens. For information please write the membership department at the above address or call 331-4000.

January 18 is the deadline for the March 1991 newsletter.

Stories must be typed, double-spaced. Please call 331-4000 for details.



Accredited by the
American Association
of Museums

Success with Houseplants

(four sessions)

Mondays, Jan. 7, 14, 21 & 28

7 to 8:30 p.m. Classroom A

Create an indoor garden of well-grown tropical and subtropical plants. Novices and advanced gardeners will learn basic professional techniques of growing healthy houseplants. Cultural topics such as light, water, fertilizer, soil and pest control will be covered in addition to information on the selection of plants for specific areas of your home.

Instructor: Louise Riverso is a professional interior plantscape designer who operates her own garden and interior plant service company.

Fee: \$24 members/\$29 nonmembers

Beginning Bonsai

(four sessions)

Thursdays, Jan. 10, 17, 24, 31

7:30 to 9:30 p.m. Classroom B

This popular introductory course will cover the history and culture of bonsai. Instruction on styling, training, potting and care of bonsai will be included. Each student will take home a completed bonsai, and all materials will be provided.

Instructors: Keith Jeppson, former president of the Rocky Mountain Bonsai Society, is an experienced bonsai hobbyist of 18 years. Harold Sasaki is a commercial bonsai grower with 19 years' experience.

Fee: \$56.50 members/\$62.50 nonmembers (includes \$22 for materials)

Limit: 16

Making Roses a Part of the Garden

Wednesday, Jan. 23

7 to 9 p.m. Classroom A

Roses are too often relegated to a separate area in the garden and not allowed to socialize with other plants. This class is not on how to grow and care for roses, but rather how to marry them happily, both aesthetically and culturally, with perennials, annuals, and other members of the garden.

Instructor: Lauren Springer studied horticulture at Penn State University. She has gardened in England, Ireland, the Midwest, and Colorado, and is a garden writer for the *Denver Post*.

Fee: \$8 members/\$10 nonmembers

The Basics of Organic Gardening

(four sessions)

Section I: Saturdays, Jan. 12, 19, 26 & February 2

9:30 to 11:30 a.m. Classroom C

Section II: Saturdays, March 9, 16, 23 & 30
9:30 to 11:30 a.m.

**Visitor Center
Chatfield Arboretum**

Please indicate your section on the registration form.

The focus of this basic organic gardening course will be on feeding the soil to feed the gardener. The principles of composting, soil testing and amending humus content will be stressed. Early, mid-, late-season crops, season extenders, crop rotation, site selection, appropriate varieties of fruits and vegetables for our climate, and seed sources will all be covered.

Learn watering techniques, companion planting, how to start your own transplants, and how to prevent and control pests and diseases safely. There will be discussion of urban gardening techniques such as intensive gardening and wide-row, double dug beds as well as reference to lesser known varieties of easy-to-grow, nutritious vegetables.

Instructor: Judy Elliott is an enthusiastic teacher with 15 years of organic gardening experience. She is a master gardener who assists "Dr. Green" at DBG.

Fee: \$32 members/\$38 nonmembers

Shrubs for Seasonal Interest

(four sessions)

Wednesdays

Jan. 23, 30, Feb. 6 & 13

7 to 9 p.m. Classroom C

From the first spring flush of forsythia flowers through the final brilliant blaze of burning bush foliage, well-chosen shrubs can add color and interest to your landscape.

You will view slides of shrubs suitable for wet, dry, sunny and shady situations in Front Range gardens. Learn space requirements for proper placement and how to prune shrubs to maintain their natural shapes.

Instructor: Alan Rollinger, a graduate of CSU, is a professional landscape designer specializing in residential planning. He has done over 800 landscaping projects and has lectured and taught over 20 years.

Fee: \$32 members/\$38 nonmembers.

The Water-Wise Flower Garden

(two sessions)

Tuesdays, Jan. 29 and Feb. 5

7 to 9 p.m. Classroom A

Water-wise gardening is in your future, and in the Denver region are examples of innovative approaches to suit all tastes. Most attention, however, has been paid to woody plants and grasses rather than showier herbaceous plants. If you have an on-going love affair with flowers, become acquainted with a rich palette of perennials, annuals and bulbs to enhance your garden through the seasons with little watering.

Instructor: Lauren Springer

Fee: \$16 members/\$19 nonmembers

Herbs in the Garden

Wednesday, Jan. 30

7 to 9 p.m. Classroom A

Most gardeners don't have the time or space for an elaborate, formal herb garden. Many herbs are beautiful, however, as well as useful, and they can be combined effectively with other plants. Learn about growing them to add texture, color, form and fragrance to your garden, and how to incorporate them artistically with annuals, perennials, shrubs and roses.

Instructor: Lauren Springer

Fee: \$8 members/\$10 nonmembers

Decorating with Houseplants

(four sessions)

Wednesdays, Feb. 6, 13, 20 & 27

7 to 8:30 p.m. Classroom A

From frilly ferns to strange-shaped cacti, houseplants can add beauty and atmosphere throughout your home. You will learn general characteristics and specific members of the major families and groups of houseplants. Growing tips and guidelines for buying will be provided.

Cacti, euphorbias, palms, ferns and begonias are among the plants to be covered in this detailed treatment of the identification and care of houseplants.

Instructor: Louise Riverso

Fee: \$24 members/\$29 nonmembers

Class locations:

Classrooms A, B and C are at 1005 York Street, Denver.

The DBG Morrison Horticultural Demonstration Center is at 2320 East 11th Avenue, Denver.

Chatfield Arboretum is at 9201 South Carr Street, Littleton (southwest of Wadsworth Boulevard and C-470).

CLASSES

Winter
1991
Denver Botanic Gardens

Winter Pruning**Saturday, Feb. 9****9 a.m. to noon****Polly Steele Nature Center
Chatfield Arboretum**

Lecture and hands-on demonstration will give you the why, how, when, and how much of winter pruning. Choosing and caring for pruning tools will also be covered. Please bring pruning shears if you have them.

Instructor: Paul Groeger is a master gardener, former president of the Men's Garden Club of Denver and a longtime volunteer at the arboretum.

Fee: \$12 members/\$14 nonmembers

Limit: 12

Backyard Composting**Section I: Saturday, Feb. 9****9:30 to 11:30 a.m.****Morrison Center****Section II: Saturday, Feb. 16****9:30 to 11:30 a.m.****Visitor Center****Chatfield Arboretum**

Please indicate your section on the registration form.

It doesn't smell, it's rich in organic material and it will help your garden grow. It's compost. Learn how to prepare compost to have a supply of valuable organic material for your spring garden.

Instructor: Judy Elliott

Fee: \$8 members/\$10 nonmembers

Trough Garden Workshop**(two sessions)****Saturday, Feb. 9 & Sunday, Feb. 10****1 to 3 p.m. Classroom B**

Create your own trough for alpine plants and learn the history of trough gardening. A slide presentation will show how to landscape your new trough with miniature plants.

Please bring rubber gloves. All other materials will be provided.

Instructor: "Mr. Trough," (as DBG's rock alpine curator, Panayoti Kelaidis, calls him) Ernie Whitford has been building troughs for five years. He is author of an article for Fine Gardening magazine on the subject.

Fee: \$31 members/\$35 nonmembers (includes \$15 for trough-making kit)

Limit: 20

Colorado Ornamentals: Five Favorite Families**(five sessions)**

**Thursdays, Jan. 17, 24, 31, Feb. 7,
(skip Feb. 14) &
Feb. 21**

7 to 9 p.m. Classroom C

Of the hundreds of plants on display in the Rock Alpine Garden, a few special families are particularly adaptable, showy assets to gardens in our climate. This is an opportunity to take a closer look at some of these families, where they come from and what their value is to Colorado gardens.

**Thursday, Jan. 17:
A Rainbow of Irises**

Some 300 species of iris occur throughout the north temperate zone. These vary from Himalayan alpinists an inch or two high to giant swamp dwellers of the Louisiana bayous. Learn garden-worthy examples from each of the many subgroups of this large plant genus.

**Thursday, Jan. 24:
Lovely Labiates**

Although the mint family has long been appreciated for its contributions to the herb garden, these aromatic plants have never achieved the ornamental status they deserve. Discover some that have a long blooming season and heat and drought tolerance.

Thursday, Jan. 31:

**Darling Yellow (and Pastel)
Daisies**

An Englishman once suggested that the Rockies be renamed the "Daisy Chain." This nickname might suit our gardens as well, since this family figures prominently in our home landscapes. Learn how botanists break this huge family into "tribes" to help understand this delightfully confusing family.

**Thursday, Feb. 7:
Scrumptious Scrophs**

The figworts may not be household names in Colorado yet, but our mountains and gardens are painted vivid hues with their flowers for much of the growing season. In this class we will concentrate on the genus *Penstemon*, which includes 250 species of wildflowers native to the U.S., and see how they can be adapted to our gardens.

**Thursday, Feb. 21:
Phantastic Phloxes**

Reginald Farrer suggested that the day phloxes were first introduced to horticulture be designated a national holiday. Many gardeners would heartily agree. No genus of native plants has taken more readily to gardens worldwide, yet there are many that are hardly known. Examine this genus botanically and for its horticultural potential.

Instructors: An enthusiastic teacher and plantsman, Panayoti Kelaidis is curator of DBG's award-winning Rock Alpine Garden. Sandy Snyder assists in the Rock Alpine Garden and will teach the session on daisies.

Fee: \$40 members/\$48 nonmembers

Know and Grow Ground Covers**Saturday, Feb. 16****9 a.m. to noon Classroom C**

Learn about the wealth of garden "carpets" other than turfgrass. Among them are mock strawberry, veronicas, sweet woodruff, creeping thymes and dwarf cotoneasters. The instructor will cover their selection, space requirements and maintenance, including mowing and fertilizing.

Instructor: Alan Rollinger

Fee: \$12 members/\$14 nonmembers.

Miniature Roses: Culture and Care Workshop

**Section I: Saturday, Feb. 16
9:30 to 11:00 a.m.**

**Section II: Tuesday, Feb. 26
7 to 8:30 p.m.**

Please indicate your section on your registration form.

Classroom B

Learn the step-by-step process of propagating miniature roses from cuttings, and how to care for them indoors and outdoors. You will take home a cutting.

Instructor: Joan Franson

Fee: \$10 members/\$12 nonmembers (includes \$4 for materials)

Limit: 15

The Half-Barrel: Your First Water Garden

Tuesday, Feb. 19

7 to 9 p.m. Classroom C

A rustic oak barrel is an excellent choice for your first water garden. A water lily, an emergent (bog plant) or two, an oxygenating plant and even a carnivorous plant can be combined to create an intriguing miniature water garden. You will learn about proper selection and care of plants. Handouts will be provided.

Instructor: Joseph V. Tomocik, author of an article on barrel gardening for Horticulture magazine, maintains DBG's water plant collection.

Fee: \$8 members/\$10 nonmembers

Simple Bird Feeders: Family Workshop

Saturday, Jan. 5

1 to 3 p.m.

Visitor Center
Chatfield Arboretum

Parents and children can spend an afternoon in our cozy one-room schoolhouse and make a simple bird feeder to take home or hang at the arboretum. After a short program on feeding birds in winter, each child will make a feeder from recycled materials. All materials and bird feed will be provided.

Instructor: Jim Trammell, Chatfield Arboretum naturalist, will be assisted by volunteer naturalist guides.

Fee: \$4 per child/adults free (includes all materials)

Limit: 15 children

Winter Tree Identification

(five sessions)

Saturdays, Jan. 5, 12, 19, 26 & Feb. 2

9:30 to 11:30 a.m.

Kathryn Kalmbach Herbarium
Denver Botanic Gardens

Winter is an ideal time to learn to identify trees by using characteristics such as bark, buds, twigs and overall shape. Please bring a hand lens and a sharp knife.

All sessions are indoors.

Instructor: A former botany instructor at the University of Denver, Dr. Helen Zeiner serves as honorary curator of DBG's Kathryn Kalmbach Herbarium.

Fee: \$40 members/\$48 nonmembers

Limit: 16

Chatfield Arboretum Naturalist Guide Training Program

(ten sessions)

Thursdays, Jan. 10, 17, 24, 31,
Feb. 7, 14, 21, 28,
March 7 & 14

9 a.m. to noon
Visitor Center
Chatfield Arboretum

Due to an increasing number of scheduled weekday tours, Chatfield Arboretum will begin a new training class for volunteer naturalist guides. Volunteers will receive 30 hours of instruction and gain experience in guiding groups. Guides will learn about the history, plants, animals and ecology of the arboretum. Upon graduation, you are asked to schedule at least four hours a month as a volunteer. (Volunteers who accumulate 40 hours are eligible for one free DBG class.)

Chatfield Arboretum, in rural southwest Jefferson County, includes a historic farm, a 19th-century, one-room schoolhouse (which serves as the visitor center), nature trails, wetlands and a nature center. As a volunteer guide you will lead history and nature discovery hikes and tours using the facilities.

Instructors: DBG naturalist Jim Trammell and experienced volunteer naturalist guides

Fee: \$25 (For materials and one-year membership in Denver Botanic Gardens Associates)

Limit: 25

Winter Nature Walk

Section I: Sunday, Jan. 13
Section II: Sunday, Feb. 10

1 to 3 p.m.
(Gate opens at 12:30 p.m.)

Visitor Center
Chatfield Arboretum

Please indicate your section on the registration form.

Your entire family will enjoy this afternoon walk through the arboretum. The serenity of winter and the starkness of the trees offer excellent opportunities to observe winter wildlife. How plants and animals survive winter will also be explored. Hot chocolate will be served in the nature center. Come prepared for the weather.

Instructor: Chatfield Arboretum naturalist Jim Trammell

Fee: \$4 adult members/\$5 adult nonmembers; children under 16, free

Limit: 12 adult registrants

Wildflowers of Colorado

Wednesday, Jan. 16

7 to 8:30 p.m. Classroom C

Brighten your winter evening with a slide program of Colorado's wildflowers, from the prairies to the mountain tops. You will travel to our state's many life zones and find out where the old man of the mountain, fairy trumpet, and sky pilot reside. Put away your snow shovel and come to the Gardens for an enlightening show.

Instructor: Joan Franson is a former president of the Colorado Federation of Garden Clubs, an All-America Rose Selection judge and a dedicated volunteer at Denver Botanic Gardens.

Fee: \$6 members/\$7 nonmembers

Bent-Willow Furniture Making

(three sessions)

Saturday, Jan. 12, 19 & 26

9 a.m. to noon

Polly Steele Nature Center
Chatfield Arboretum

Learn the pioneer art of making furniture from the supple branches of freshly cut willows.

During the first session you will learn how to identify and find native willow twigs. Selection of the proper sizes and lengths of the twigs is important to construct different sections of the furniture. Please bring sharp pruning shears and a hammer. In the following sessions students will work together to make one simple piece of furniture which will be used at the arboretum. *Please come dressed for outdoor activity on Saturday, January 12th.*

Instructor: Chris Hartung is the resident horticulturist at Chatfield Arboretum. He has made willow furniture for his home.

Fee: \$39 members/\$46 nonmembers (includes \$3 for materials)

Limit: 12

Hawks, Owls and Bald Eagles

(two classroom sessions plus a field trip)

Tuesdays, Jan. 15 & 29
6:30 to 9:30 p.m.

Saturday, Feb. 2
(field trip)
8:00 a.m. to 2:30 p.m.

Visitor Center
Chatfield Arboretum

Do you realize that many bald and golden eagles are found in the Denver-Boulder area during the winter? This beginners' course will reveal specific

continued on page 6

continued from page 5

raptor identification and behavior beyond information usually found in field guides. Classroom sessions will cover detailed identification characteristics of Colorado birds of prey, including owls.

Location of the field trip will be given at a class session. Bring a bird field guide to the first class session.

Instructors: Naturalist Tina Jones has birded throughout the U.S. and teaches bird behavior and bird identification classes. Ann Bonnell, naturalist at Roxborough State Park, leads bird walks and is a former board director of Denver Field Ornithologists.

Fee: \$32 members/\$38 nonmembers

Limit: 20

Rocky Mountain Arsenal Field Trip

Sunday, Jan. 20 1 to 3:30 p.m.

Learn about the history of Rocky Mountain Arsenal and the current plans for cleaning up the contamination from past production and storage of weapons and chemicals. See how this 27-mile island in a sea of civilization is coming back to life with bald and golden eagles guarding its skies. Expect to see hawks, coyotes, mule deer and white-tailed deer.

There is no charge for this field trip but advance reservation *must* be made through the education department.

Meet: Shortly after 1 p.m. at the west gate, 72nd Avenue and Quebec Street in Commerce City. A bus will meet you there and take you into the arsenal. No private cars are allowed on the grounds.

Instructor: A park ranger or wildlife biologist from the U.S. Fish and Wildlife Service will lead this tour.

Fee: No charge but advance reservation is required. Call 331-4000, ext. 20, between 8 a.m. and 5 p.m., or use the registration form.

Limit: 70

Basic Beekeeping

(three sessions)

Saturdays, Feb. 16, 23 & March 2

9 a.m. to noon

**Polly Steele Nature Center
Chatfield Arboretum**

This class is designed to show beginners how to get started in beekeeping, step by step. You will learn the entire procedure from setting up a hive to harvesting honey. A discussion of interesting facts about honey plants,

bee behavior and ecology will also be included.

A field trip to a local apiculturist and beekeeping supplier is included. Reference books, supply catalogs and supplies will be on display.

Instructor: Carol Dawson, an enthusiastic teacher and beekeeper, is a research associate at Denver Botanic Gardens. She has kept bees for several enjoyable years.

Fee: \$36 members/\$43 nonmembers

Limit: 12

Animals in Winter

Saturday, Feb. 23

9 a.m. to 1 p.m.

**Visitor Center
Chatfield Arboretum**

Join this hands-on workshop and nature walk to learn how to interpret the tracks and other signs left by deer, cottontail rabbits and coyotes. We will make plaster casts of your favorite animal tracks.

Come dressed for the weather, as part of the session will be held outdoors. Also bring a lunch or snack; beverages will be available.

Instructors: Cecilia Armbrust is a naturalist at Roxborough State Park and tracker for the Arapahoe County Sheriff's Office. Jim Trammell is a naturalist at Chatfield Arboretum.

Fee: \$16 members/\$20 nonmembers

Limit: 12

Colorado Conifers

Saturday, Feb. 23

1 to 3 p.m.

**Visitor Center
Chatfield Arboretum**

Learning to recognize the native Colorado conifer trees is the subject of this indoor session. You will learn to identify the trees by simple characteristics of the leaves (needles) and cones. Interesting facts and the natural histories of native conifer trees will be discussed.

Instructor: Jim Trammell

Fee: \$9 members/\$11 nonmembers (includes \$1 for materials)

Limit: 12

Tempera-Ink Resist Painting

(three sessions)

Tuesdays, Jan. 8, 15 & 22

9:30 to noon Classroom B

This is an exciting new way to achieve surprising "antique" results in your flower paintings. The black ink gives an unusual effect to the

backgrounds and deep shadows of the leaves and petals. The tempera paint resists the ink that is painted over the final composition. The surprise happens in the final wash-off stage.

Instructor: A talented artist, Helen Buznedo has extensive teaching experience and is a member of the Denver Allied Arts Guild.

Fee: \$40 members/\$46 nonmembers (includes \$10 for materials)

Limit: 15

Watercolor Painting

(five sessions)

Wednesdays, Jan. 9, 16, 23, 30 & Feb. 6

Section I: 9:30 a.m. to 12:30 p.m.

Section II: 6:30 to 9:30 p.m.

Please indicate your section on the registration form.

Classroom B

Explore the sparkle and delicacy of watercolor painting while you enjoy the natural setting of Denver Botanic Gardens. This course will cover the basic materials and techniques of watercolors, with emphasis on freedom of personal expression.

Come prepared with supplies: a one-inch flat brush, #10 round brush, watercolor paper, tissues, container for water, plastic palette and cake or tube watercolors.

Instructor: Boris Shoshensky

Fee: \$60 members/\$72 nonmembers

Limit: 15

Art in Nature

(six sessions)

Mondays, Jan. 14, 21, 28, Feb. 4, 11 & 18

7 to 8:30 p.m.

John C. Mitchell II Hall

This series of slide presentations, accompanied by narratives and musical selections, will illuminate the interrelationship of the arts and nature. From the plant drawings of Leonardo da Vinci to Georgia O'Keeffe's floral studies, you will explore artists' interpretations of nature from the Renaissance to the twentieth century.

Instructor: Oksana Ross, Ph.D., is an art historian, artist and pianist. She has taught at the University of Colorado at Denver, Metropolitan State College and Colorado Women's College.

Fee: \$36 members/\$43 nonmembers

Drawing from Nature

(six sessions)

Thursdays, Jan. 17, 24, 31, Feb. 7, 14 & 21

1 to 3 p.m. Classroom B

From living plants to still lifes, from realism to abstraction, learn to see, sketch and draw natural forms and designs, then translate black and white studies into exciting color. You will receive instruction in assorted media and subject matter.

Bring a large sketch pad, soft charcoal and drawing pencils to the first class.

Instructor: Oksana Ross, Ph.D.

Fee: \$48 members/\$58 nonmembers

Limit: 20

Introduction to DBG's Helen Fowler Library

Tuesday, Feb. 19

10 to 11 a.m. Helen Fowler Library

DBG's Helen Fowler Library houses the most complete collection of plant related books in Colorado, as well as numerous magazines, pamphlets, seed and nursery catalogs. The Waring Rare Book Room, which contains a valuable collection of beautifully illustrated botanical publications, is a fascinating part of this wonderful library. In this class you will explore the holdings and learn how to use this valuable facility.

Instructor: Solange Gignac is the librarian of the Helen Fowler Library.

No fee: Registration is required.

Italian Cooking with Judith Fine-Sarchielli

(Please bring a small chef's knife, paring knife, apron and a cutting board if you wish to participate in the hands-on part of these classes.)

Pasta I: Classic Tuscan Recipes

Saturday, Jan. 12 9:30 a.m. to noon

Kitchen, next to DBG Library

Learn basic sauces, some exciting variations, and how to match them wisely with fresh or dried pastas. Some of the classic vegetarian dishes you will master are from Sarchielli family recipes several hundred years old.

Instructor: An accomplished chef, caterer, food consultant, teacher and designer, Judith Sarchielli lived in Italy 15 years.

Fee: \$16.50 members/\$20 non-members (includes \$4.50 for materials)

Limit: 12

Winter Soups: Classic Tuscan Recipes

Saturday, Jan. 26 9:30 a.m. to noon

Kitchen, next to DBG Library

Many of these simple and delicious soup recipes have satisfied Florentine families for centuries. *Minestrone*, *Pasta e Fagioli*, *Minestre e Cacciucco* are examples of the tasty, unusual dishes you can serve as main courses — for everyday or party meals.

Instructor: Judith Fine-Sarchielli

Fee: \$16.50 members/\$20 nonmembers (includes \$4.50 for materials)

Limit: 12

Pasta II: Classic Tuscan Recipes

Saturday, Feb. 2 9:30 a.m. to noon

Kitchen, next to DBG Library

In this continuation of Pasta I, you will create cheese sauces and tantalizing short and long formed pastas flavored with produce such as wild mushrooms or grilled vegetables. All are Sarchielli family recipes of classic Tuscan dishes.

Instructor: Judith Fine-Sarchielli

Fee: \$16.50 members/\$20 non-members (includes \$4.50 for materials)

Limit: 12

Designer Pizzas

Saturday, Feb. 16 9:30 a.m. to noon

Kitchen, next to DBG Library

Starting with a variety of pizza doughs, you will create mouth-watering, imaginative pizzas with tasty ingredients such as fresh herbs, seafood, eggplant, prosciutto and porcini mushrooms. Dessert pizzas of chocolate, strawberries and ginger lend an unusual finishing touch.

Instructor: Judith Fine-Sarchielli

Fee: \$16.50 members/\$20 non-members (includes \$4.50 for materials)

Limit: 12

Denver Botanic Gardens 909 York Street Denver, Colorado 80206

Fees for courses should be paid in advance by charge, check or money order made out to Denver Botanic Gardens. Since space is limited in many courses, registration should be mailed in promptly. Your name will be placed on the class list the day your payment is received. No enrollments for class by phone please. All courses given are subject to a minimum enrollment of ten students. For further information, please call 331-4000.

Registration Form for Classes, Field Trips and Lectures

Enclosed is _____ to cover the registration fees for the following classes:

Name and section of class(es) _____

Name _____

Member of Denver Botanic Gardens? ☐ Yes ☐ No

Member ID _____ (on top line of newsletter address label)

Address _____

City _____ ZIP code _____

Daytime Phone _____ Evening Phone _____

Cash ☐ Check ☐ VISA ☐ MC ☐

_____ Exp. _____

Signature _____

C A L E N D A R JAN

Regular Meetings of Plant Societies

A number of plant and horticultural groups meet fairly regularly at Denver Botanic Gardens. Here is a listing of those groups and a **general** indication of when they usually meet. For more specific meeting times and locations as well as for information on how to contact a representative of the group, please call the Botanic Gardens switchboard during business hours at 331-4000.

African Violet Society, 4th Thurs. of 7 months; **Bonsai Society**, 1st & 3rd Tues.; **Cactus & Succulent Society**, 2nd Tues.; **Civic Garden Club**, 1st Fri.; **Colorado Native Plant Society**, 4th Wed.; **Gloxinia Gesneriad Growers**, 1st Sat.; **Hemerocallis Society**, 3rd Sun. of 4 months; **Ikebana International**, 4th Fri.; **Iris Society**, spring & fall dates; **Men's Garden Club**, 4th Thurs.; **Mycological Society**, 2nd Mon.; **Rock Garden Society**, 3rd Wed.; **Rose Society**, 2nd Thurs.; **Ultra Violet Club**, 4th Mon.; **Water Garden Society**, 2nd Sun. of 5 months.

**First meeting of a class with more than one session*

6

13

Winter Nature Walk

20

Rocky Mountain Arsenal Field Trip

27

M

7

Success with Houseplants*

14

Art in Nature*

21

28

T

1

Closed New Year's Day

8

Bonfils-Stanton Lecture/ Tempera-Ink Resist Painting

15

Hawks, Owls and Bald Eagles*

22

29

Water-Wise Flower Garden*

N

W

2

9

Watercolor Painting*

16

Wildflowers of Colorado

23

Making Roses a Part of the Garden/ Shrubs for Seasonal Interest*

30

Herbs in the Garden

D

T

3

10

Beginning Bonsai*

17

Colorado Ornamentals*/ Drawing from Nature*

24

31

A

F

4

11

18

25

R

S

5

Winter Tree Identification*/ Simple Bird Feeders

12

Bent-Willow Furniture/ Basics of Organic Gardening*/ Pasta I: Classic Tuscan Recipes

19

26

Winter Soups



Denver Botanic Gardens, Inc.
909 York Street
Denver, Colorado 80206
303-331-4000

Address correction requested

TIME VALUE
January 1991



Non Profit Org.
U.S. Postage
PAID
Permit No. 205
Denver, CO



NEWS

**Denver Botanic Gardens
February 1991
Number 91-2**

Trustee Plant Protection Resolution Formalizes DBG Activity Beyond Gardens and Arboretum Sites

During its regular September 25, 1990, meeting the Denver Botanic Gardens Board of Trustees approved a resolution submitted by Life Trustee Dr. Moras Shubert aimed at formalizing the Gardens' long-standing commitment to conservation. The resolution expresses concern about all threats to the perseverance of plant species, encourages protection of all threatened vegetation and sets the Gardens on a direct course of active plant conservation. Although this stance has been implicit in the Gardens' mission statement, Dr. Shubert and the board recognize that both the endangered plant conservation movement and the Gardens are evolving through a critical period when a strong reaffirmation of the Gardens' position is necessary. The full resolution follows:

Resolution on Plant Protection

WHEREAS Denver Botanic Gardens recognizes that all biological entities are interrelated and dependent upon each other and their physical environment,

AND WHEREAS the concerns of Denver Botanic Gardens extend beyond our actual gardens and arboreta,

AND WHEREAS it is observed that in Colorado and neighboring areas there are threats to individual plant species and to vegetational units by human activities such as fires, deforestation, water use, mining, road-building, and development in natural areas,

AND WHEREAS in keeping with the membership of Denver Botanic Gardens in the American Association of Botanic Gardens and Arboreta and the Center for Plant Conservation, and in our encouragement of other such organizations concerned with the conservation of plants and vegetation,

NOW, THEREFORE BE IT RESOLVED that the Board of Trustees expresses its concern about all activities which threaten species and vegetation types, particularly in our mountain and plains states,

BE IT FURTHER RESOLVED that Denver Botanic Gardens encourages and endorses programs and activities aimed at the protection and preservation of plant species and threatened types of vegetation,

BE IT FURTHER RESOLVED that Denver Botanic Gardens will engage in action to save rare, threatened, and endangered species.

Approved by the Board of Trustees on the 25th day of September 1990.

New Conservatory Pest Managers Not Pretty, But Effective

When you've got an ugly job to get done, you can't be too picky about the appearance of whomever — whatever — you hire to do it. The Gardens has a new pest management team in its Boettcher Memorial Conservatory. And they are not pretty.

They've got an ugly job, getting rid of crickets and cockroaches, the unavoidable, tenacious affliction of tropical plant collections the world over. While an adequate arsenal of chemical weapons is available that will, with repeated use, keep these pests under control, Denver Botanic Gardens has long held to a policy that using fewer chemical pesticides is better — for its gardeners, for its visitors and for the earth. Following the Gardens' strict guidelines for integrated pest management (IPM), the horticultural staff falls back on pesticides only when other methods of control prove inadequate for the job. Commonly used are natural predators, animals — usually "bugs" — that parasitize or eat the other, peskier bugs.

The latest to join the Gardens' IPM team are *Bufo marina* and 10 *Gecko gecko* assistants. They arrived in January.

Bufo is a marine toad from the tropical Americas with a voracious appetite for practically any small creature that crawls, including cockroaches, crickets and mice. The individual male (there's obviously some uncertainty about this) purchased by the Gardens is not fully grown, but is expected to rapidly reach immense proportions on its plentiful conservatory diet. His fat, ugly kindred have been described as "mobile cow patties" by those who have seen them. *Geckos* will be in charge of all territory above ground level, in the conservatory's canopy of palms and other trees where cockroaches have proven to be particularly elusive. To the *Geckos'* credit, they, at least, have brilliantly colored markings adorning their lizardly hides.

It should be understood by conservatory visitors that, if encountered, these new "staff members" should not be handled or molested in any way — they have important jobs to do. In fact, the toad secretes a toxic repellent through his skin. But, as with the more conventional looking horticulturists at the Gardens, you may learn something new, just by watching them at their work.

Inside:

Gardening
page 3

Xeriscaping
class
page 5

Basic Botany
class
page 6

Class
registration
form
page 7

Coming Up
page 8

Winter is an ideal time for nature walks, to identify plants and glimpse animals. See walks, p. 6.



Tributes

In honor of Elaine Bartlett

Ina Cherington

In memory of Pat C. Ball

John & Gloria Falkenberg

In memory of Charles Booth (restricted to the Helen Fowler Library)

Elizabeth Heacock

In memory of Mrs. Eugene Dines

John & Gloria Falkenberg

In memory of John L. Ferguson

Mr. & Mrs. Ted P. Stockmar

In memory of Robert Freedman

Mr. & Mrs. Robert Appel

In memory of Frana Hessel

Mrs. Afton Dreskell

In memory of Jetty Kirchen (restricted to the Helen Fowler Library)

Mr. & Mrs. William Y. Holland

In memory of Professor Koichi Kawana

John & Gloria Falkenberg

Dr. & Mrs. Moras Shubert

In memory of Mrs. Thomas B. Knowles

Mr. & Mrs. Edward P. Connors

Garden Club of Denver

John & Gloria Falkenberg

Dr. & Mrs. Moras Shubert

Mr. & Mrs. Thomas E. Taplin

Mr. & Mrs. David Touff

In memory of Selma Menachof

Mr. & Mrs. Bernard Munishor

In memory of Tom Morehouse

Mr. & Mrs. C.W. Haws

Ned Kemeys

Ken & Betty Larson

Bob Prewitt

In memory of Alice Mann Owen (restricted to the Alice Mann Owen Intern Fund)

T. Page Owen, Jr.

In memory of Dixon B. Perry-Smith

Jeanne Nethaway Perry-Smith

In memory of Kim Sterne (restricted to the Kim Sterne Survival Garden)

Mr. & Mrs. Bruce C. Sterne

Darcy Chase Sterne

In memory of Karol Tomanek

Staff of Office of the State Auditor

In memory of William Weber

Mr. & Mrs. Benjamin F. Stapleton

Early Gardening Volunteers Needed Before May Sale

Tired of winter? Can't wait to start gardening? You are invited to join the group of volunteers who will be digging and potting plants for sale in the Gardening Donations Division at the annual Plant and Used Book Sale (May 10 & 11). The group will meet on Tuesday and Thursday mornings at 9 a.m., starting April 2. You may come on either day or both days. For further information, contact Marilyn Moore at 388-6934 or Anne Bobal at 751-9078.

Gleanings

From American Forests magazine, October 1990: In recent years Boys Town, Nebraska, has planted more than 5,600 trees on its 1,400 acres. Executive director Reverend Val Peter observes, "I am a firm believer that beauty is a silent teacher."

From the Denver Post, September 20, 1990: A wide-ranging plant screening program and subsequent research sponsored by the National Cancer Institute have shown that the bark of Pacific yew, *Taxus brevifolia*, yields a new cancer-fighting drug. In clinical trials the extract, called taxol, has been effective against ovarian cancer in a third of the women whose cancer was unresponsive to other types of treatment.

Efforts to synthesize the drug have not worked, prompting cancer researchers and environmentalists to ask for federal protection for the tree, which, according to the U.S. Forest Service, is abundant in the Northwest. The drug, though, is very scarce, with current supplies sufficient to treat only 200 to 300 patients. About 20,000 American women each year are diagnosed with ovarian cancer.

From American Forests magazine, October, 1990: Trees that serve as fish nurseries? Provincial planners in Vietnam are promoting management of riverside mangrove forests as both easily managed fisheries and producers of lumber products. Small ponds in cleared areas are stocked naturally with shrimp larvae from the rivers. They mature to salable size in about a month.

"The Romantic Garden" To Enchant You in February

February will become an enchanted month for gardeners when "The Romantic Garden," the first symposium to focus exclusively on the importance of the contemporary romantic design movement, comes to the Gardens Saturday, February 23. Sponsored by the Arnold Arboretum of Harvard University in cooperation with Denver Botanic Gardens, the Chicago Botanic Garden and the New York Botanical Garden, the all-day symposium will bring to Denver the expertise and inspiration of five noted North American horticulturists.

Registration, which includes lunch, refreshments and handout materials, is \$96 for DBG members. For non-members it is \$106 and for students with proof of full-time status it is \$53. As a Denver Botanic Gardens member you will receive a brochure in the mail with full details.

DBG Shares Membership Lists

Occasionally Denver Botanic Gardens exchanges names from its membership list with other cultural organizations in the Denver area. If you would prefer that your name not be included in these exchanges, we will be happy to honor your wishes. Please send a note — including your membership number — to the DBG membership coordinator, and we will make the necessary notation on your record to keep your name from being shared.

Green Thumb News Number 91—2 February 1991

Published monthly by Denver Botanic Gardens, 909 York Street, Denver, Colorado 80206-3799, and edited by Larry Latta. Subscription to this newsletter is a benefit of membership in Denver Botanic Gardens. For information please write the membership department at the above address or call 370-8029.

February 18 is the deadline for the April 1991 newsletter.



Accredited by the
American Association
of Museums

Gardening: Coax Branches to Bloom Indoors for an Early Spring

3

Within a few weeks, tall branches of bright yellow forsythias will tempt you from florists' windows and grocery store aisles. It will be months before they trumpet the arrival of springtime outdoors, and the sight of these glorious spires will lift your winter-weary spirit with visions of lovely spring arrangements to come.

But why wait? You can revel in bouquets of unseasonal beauty all through late winter and early spring by coaxing not only forsythias but several other flowering shrubs to bloom ahead of their time. Most of them are not all that difficult, and forcing branches, like forcing bulbs, is one of the most satisfying ventures that a gardener or flower arranger can tackle.

Like many horticultural pursuits, it's not an exact science, but may be all the more attractive for its imprecision. Of course commercial flower forcers couple their years of recorded experience with special facilities for lighting, cooling, humidifying and heating to produce consistent results. But with no delivery deadlines to meet, the rest of us can take a more relaxed — and inexpensive — approach. We will enjoy the flowers no less.

Spring and early-summer flowering shrubs develop their flower buds the year before; by winter they are already complete bouquets-in-waiting. Out in the elements, a period of cold temperature during winter readies them to bloom. After a few weeks of this cold preparation (the length of which varies from plant to plant) they must merely wait for the warmer, wetter, sunnier weather of spring to finally perform the beautiful work they've been waiting for. The springtime phase is the easiest for us to emulate. Forcing branches into bloom is simply providing them with an early, out-of-season, false springtime.

When you cut branches for forcing you have the luxury of choosing them for size or for interesting shape, but consider good pruning practices, too, for the health and appearance of the plant you leave behind. Make clean cuts with a sharp blade and leave as little stub as possible. Split or smash the base of each branch with a hammer, if you wish, to increase its ability to take up water, although little information is available to support this practice. Usually a good, clean, slanted cut is sufficient.

Place your branches immediately in a container of luke warm water. A tiny pinch of sugar and a tinier drop of bleach in the water simulates the benefits of floral preservative. Then place the branches in a bright, cool location indoors to bring them gradu-

ally into bloom. You will have to discard and replace the water mixture about twice a week to keep it fresh. Resist the urge to hurry the process by forcing the buds at high temperatures. Probably the most common causes of failure are allowing the stems to clog with algae (which is what the bleach is meant to prevent) or subjecting the flower buds to warm, dessicating conditions. Remember, it's springtime we're trying to mimic — not summer.

Forsythias are but the golden banners in the parade of flowering woody plants you can enjoy indoors out of season. A single, carefully chosen branch of flowering ("Japanese") quince (*Chaenomeles*) and a few blossoms of iris or chrysanthemums can be beautifully composed into an instant "Japanese style" arrangement. Pear blossoms of all types force dependably, as do many plums. Early viburnums are pretty candidates (*V. bodnatense* and *V. carlesii* are most compliant, and deliciously fragrant, as well), while the later ones, such as the common snowball viburnum, may be disappointing. In general, the earlier a shrub blooms outdoors, the easier it is to coax into bloom indoors. Later-blooming shrubs, such as lilacs, are less dependable unless you cut them fairly close to their natural season. Lilac buds are also more likely to open well if you remove the leaves from the branches as they unfold. But

because you will also appreciate a bit of greenery in your bouquets, even a twig that develops mainly leaves and few flowers can be a valuable arranger's resource in the gloom of late winter. Remembering that the temperature and other conditions in your own home may affect the outcome considerably, and that buds unfold more quickly the nearer you gather them to their natural bloom time, here's what you can expect from some common woody plants:

Quick and easy to force, you can cut the following branches any time from late January to early March: pussy willows (and other willows), forsythias, flowering quinces, early viburnums, pears, plums and serviceberries (*Amelanchier* species). Try branches of maples for their rich colors, even in the fresh, new leaves. From March onward, begin cutting these, though they are not as foolproof: lilacs, snowball viburnums, apples and crabapples, and mock oranges. Be adventuresome: the unusual flowers and springiest-of-spring-green leaves of birches and alders will give your arrangements a marvelously fresh lift.

If you've never before tried forcing sprigs of springtime indoors, let this winter be the season you begin. Spring will soon be here, but why wait?

Larry Latta



Blossoms of early-flowering shrubs and trees are delicate additions to winter arrangements.

Decorating with Houseplants

(four sessions)

Wednesdays, Feb. 6, 13, 20 & 27

7 to 8:30 p.m. Classroom A

From frilly ferns to strange-shaped cacti, houseplants can add beauty and atmosphere throughout your home. You will learn general characteristics and specific members of the major families and groups of houseplants. Growing tips and guidelines for buying will be provided.

Cacti, euphorbias, palms, ferns and begonias are among the plants to be covered in this detailed treatment of the identification and care of houseplants.

Instructor: Louise Riverso

Fee: \$24 members/\$29 nonmembers

Winter Pruning

Saturday, Feb. 9

9 a.m. to noon

**Polly Steele Nature Center
Chatfield Arboretum**

Lecture and hands-on demonstration will give you the why, how, when, and how much of winter pruning. Choosing and caring for pruning tools will also be covered. Please bring pruning shears if you have them.

Instructor: Paul Groeger is a master gardener, former president of the Men's Garden Club of Denver and a longtime volunteer at the arboretum.

Fee: \$12 members/\$14 nonmembers

Limit: 12

Trough Garden Workshop

(two sessions)

Saturday, Feb. 9 & Sunday, Feb. 10

1 to 3 p.m. Classroom B

Create your own trough for alpine plants and learn the history of trough gardening. A slide presentation will show how to landscape your new trough with miniature plants.

Please bring rubber gloves. All other materials will be provided.

Instructor: "Mr. Trough," (as DBG's rock alpine curator, Panayoti Kelaidis, calls him) Ernie Whitford has been building troughs for five years. He is author of an article for Fine Gardening magazine on the subject.

Fee: \$31 members/\$35 nonmembers (includes \$15 for trough-making kit)

Limit: 20

Backyard Composting

Section I: Saturday, Feb. 9

9:30 to 11:30 a.m.

Morrison Center

Section II: Saturday, Feb. 16

9:30 to 11:30 a.m.

**Visitor Center
Chatfield Arboretum**

Please indicate your section on the registration form.

It doesn't smell, it's rich in organic material and it will help your garden grow. It's compost. Learn how to prepare compost to have a supply of valuable organic material for your spring garden.

Instructor: Judy Elliott

Fee: \$8 members/\$10 nonmembers

Know and Grow Ground Covers

Saturday, Feb. 16

9 a.m. to noon Classroom C

Learn about the wealth of garden "carpets" other than turfgrass. Among them are mock strawberry, veronicas, sweet woodruff, creeping thymes and dwarf cotoneasters. The instructor will cover their selection, space requirements and maintenance, including mowing and fertilizing.

Instructor: Alan Rollinger

Fee: \$12 members/\$14 nonmembers.

Miniature Roses: Culture and Care Workshop

Section I: Saturday, Feb. 16

9:30 to 11:00 a.m.

Section II: Tuesday, Feb. 26

7 to 8:30 p.m.

Please indicate your section on your registration form.

Classroom B

Learn the step-by-step process of propagating miniature roses from cuttings, and how to care for them indoors and outdoors. You will take home a cutting.

Instructor: Joan Franson

Fee: \$10 members/\$12 nonmembers (includes \$4 for materials)

Limit: 15

The Half-Barrel: Your First Water Garden

Tuesday, Feb. 19

7 to 9 p.m. Classroom C

A rustic oak barrel is an excellent choice for your first water garden. A water lily, an emergent (bog plant) or two, an oxygenating plant and even a carnivorous plant can be combined to create an intriguing miniature water garden. You will learn about proper selection and care of plants. Handouts will be provided.

Instructor: Joseph V. Tomocik, author of an article on barrel gardening for Horticulture magazine, maintains DBG's water plant collection.

Fee: \$8 members/\$10 nonmembers

A Palette of Annuals

(two sessions)

Tuesdays, March 5 & 12

7 to 9 p.m. Classroom A

In Colorado we have a perfect climate for growing the brightest, most beautiful annuals. Beyond the old friends — petunias, alyssums and marigolds — lies a whole world of other gems waiting to be discovered, planted and grown.

Meet some of these lesser known annuals for all situations — for sun, drought, shade, fragrance, cutting and drying. Learn where to get them, how to grow them and how to combine them creatively with each other and with other plants.

Instructor: Lauren Springer

Fee: \$16 members/\$19 nonmembers

The Basics of Organic Gardening

(two sessions)

Section II: Saturdays, March 9 & 16

9:30 a.m. to 1:30 p.m.

**Visitor Center
Chatfield Arboretum**

The focus of this basic organic gardening course will be on feeding the soil to feed the gardener. The principles of composting, soil testing and amending humus content will be stressed. Early, mid-, late-season crops, season extenders, crop rotation, site selection, appropriate varieties of fruits and vegetables for our climate, and seed sources will all be covered.

Learn watering techniques, companion planting, how to start your own

MAY SPLENDOR IN SOUTHERN ENGLAND

A Denver Botanic Gardens Trip

May 10 - 25, 1991

Tour Highlights Include:

- * Special visit with Rosemary Verey, author of "Every Woman's Garden", and tour of her home, Barnsley Manor
- * Trip to Hidcote Manor, one of the National Trust's finest properties and gardens
- * Touring the Garden City of Bath and Iford Manor, one of England's highest ranking gardens
- * Sightseeing in fascinating places such as Chipping Campden, St. James Church, Morton-in-the-Marsh, Stow-in-the-Wold
- * A visit to the 13th Century spired Cathedral of Salisbury
- * A morning coffee at Leonardslee Gardens, then on to the National Trust's Sheffield Park, and Wakehurst Place - The Kew Gardens in the country
- * Visits to Edwardian Polesden Lacey with its art collections, Palladian Country house of Clandon Park, the Royal Pavilion, Arundel Castle and Winston Manor
- * A tour of Denmans Gardens and Goodwood House, hosted by John Brookes, recent lecturer for Denver Botanic Gardens
- * Travel to the Royal Horticultural Society's Gardens in Wisley where the Rhododendrons and Rock Garden will be in finest glory
- * Attendance at the magnificent Chelsea Flower Show and a private tour of nearby Chelsea Physic Gardens
- * Riverboat excursion to Kew's famous Royal Botanic Gardens
- * Visit Sissinghurst Castle and gardens, Savill Gardens and one of Henry VIII's favorite residences, Hampton Court Palace and gardens
- * Gala farewell dinner at Les Bouchons 57 Restaurant in London

Tour Price Includes:

- * Specially arranged round-trip group airfare on United Airlines and British Air
- * 5 Nights at the Stratton House Hotel in Cirencester, Gloucestershire
4 Nights at the Winston Manor Hotel in Crowborough, East Sussex
5 Nights at the Flenings Hotel in London, Mayfair District
- * Nine Full English Breakfasts, Nine Dinners, Five Continental Breakfasts, Five Lunches, Gala Farewell Dinner
- * Small Luxury Coach touring and gratuities
- * All special activities mentioned in the itinerary
- * Membership in the Royal Horticultural Society and Royal Oak
- * Entrance fees to Gardens and Manors
- * Tours of Private Gardens
- * \$200 tax deductible donation to the Denver Botanic Gardens
- * Porterage, Hotel tax and service charges
- * Fully escorted throughout by Andrew Pierce, Senior Horticulture Advisor, and Barbara Baldwin, Chair of Gardens Travel Committee

Tour Cost:

- * \$2,993.25 Land arrangements per person, based on double occupancy
- 773.00 Group airfare
- \$3,766.25

Single Supplement: \$455.00



For further information and a complete itinerary contact Betsy at Cherry Creek Travel, 320-1070. This tour will fill very quickly. The custom features of the trip are unique and will not be repeated. Since space is limited your reservation must be accompanied by a deposit check in the amount of \$500.00 per person, made payable to Cherry Creek Travel. Payment must be received no later than February 15, 1991. Final payment will be due no later than March 1, 1991.

To reserve space please complete and return the attached coupon together with your deposit check.

THE PURCHASE OF TRAVEL INSURANCE IS STRONGLY RECOMMENDED!

Please complete and return to:
Cherry Creek Travel
ATTN: Betsy
200 Fillmore Suite 100
Denver, Colorado 80206



Please reserve _____ spaces on the "May Splendor in Southern England" Denver Botanic Gardens trip.

NAME _____

SPOUSE/ROOMMATE'S NAME _____

SINGLE SUPPLEMENT NEEDED? _____ YES _____ NO

ADDRESS _____

CITY _____ STATE _____ ZIP _____

HOME PHONE _____ BUSINESS _____ EXT. _____

AIRLINE SEATING PREFERENCE:

_____ SMOKING

_____ WINDOW SEAT

_____ NON-SMOKING

_____ AISLE SEAT

DEPOSIT ENCLOSED \$ _____
(\$500.00 PER PERSON)

SIGNATURE

transplants, and how to prevent and control pests and diseases safely. There will be discussion of urban gardening techniques such as intensive gardening and wide-row, double dug beds as well as reference to lesser known varieties of easy-to-grow, nutritious vegetables.

Please bring a sack lunch.

Instructor: Judy Elliott is an enthusiastic teacher with 15 years of organic gardening experience. She is a master gardener who assists “Dr. Green” at DBG.

Fee: \$32 members/\$38 nonmembers

Propagation of Tropical Water Lilies

Tuesday, March 19

7 to 9 p.m. Classroom C

Learn the special skills of growing showy, tropical water lilies from seeds and tubers. Propagation techniques developed and practiced at DBG will be demonstrated during a visit to the DBG greenhouse. After the class you will take home seeds and/or tubers of plants in the Gardens’ collections, including seeds of rare species.

Instructor: Joseph V. Tomocik

Fee: \$8 members/\$10 nonmembers

Limit: 20

ABC’s of Pruning

Wednesday, March 27

9 a.m. to noon Classroom B

Through lecture, slides and demonstration, learn the ABC’s of pruning and overcome your fear of making crucial cuts. Choosing and caring for pruning tools will also be covered.

There will be an outdoor pruning demonstration so please dress appropriately.

Instructor: Paul Groeger is a master gardener, former president of the Men’s Garden Club of Denver and a long-time volunteer at Chatfield Arboretum.

Fee: \$12 members/\$14 nonmembers

Limit: 12

Xeriscaping Your Home

(four sessions)

Tuesdays, April 2, 9, 16 & 23

6:30 to 9:30 p.m.

**Visitor Center
Chatfield Arboretum**

This class will guide you through a do-it-yourself project using the seven basic fundamentals of xeriscaping. You will learn how to start and complete a

landscape plan to suit your desires, needs and budget.

You will learn how to reduce blue-grass areas, increase ground covers, use low water plants, develop watering zones, select efficient irrigation systems, improve soil, use mulches and plan alternatives to rocks and gravel.

Instructor: Thomas L. Stephens, a professional landscape architect with many years of design and teaching experience, is co-authoring a book, *Xeriscape: Common Sense Landscaping*.

Fee: \$53 members/\$64 nonmembers (includes \$5 materials fee)

Limit: 12

Vegetable Gardening for Results

(four sessions)

Saturdays, April 6, 13, 20 & 27

1 to 4 p.m. Morrison Center

This series of vegetable gardening classes will introduce you to organic methods.

Register for all or for individual classes.

Soil Preparation: April 6

Enriching soil is a critical part of any gardening program. Learn about compost — how to make it and use it — organic methods of fertilizing and double-digging techniques of bed construction.

Cole Crops, Lettuce and Other Greens: April 13

Broccoli, cabbage, cauliflower, bok choy and Chinese cabbage are healthful, easily grown vegetables especially suited for cool spring and fall growing conditions. Learn how to grow an assortment of salad greens and how to do succession planting, intercropping and fertilizing.

The Tomato and its Relatives: April 20

Tomatoes, peppers and eggplants are all members of the deadly nightshade family. Learn superior varieties for your needs and how to maximize yield. Seed sources for unusual varieties will be provided.

Beyond the May Planting Frenzy: April 27

This session will focus on appropriate crops for the late-summer-to-fall garden. Many plants respond well to shorter daylight hours and cooler temperatures.

Instructor: Judy Elliott is an enthusiastic teacher with 15 years of organic gardening experience. She is a

master gardener who assists “Dr. Green” at Denver Botanic Gardens.

Fee: \$10 members/\$12 nonmembers for single sessions. Entire series is \$44 members/\$48 nonmembers.

The Aquatic Garden: Basic Pool Construction

Wednesday, April 10

7 to 9 p.m. Classroom C

Backyard gardeners and do-it-yourself enthusiasts will learn how to install pools from start to finish. Site selection and design considerations, as well as how to use membrane liners, will be discussed. Although emphasis will be placed on PVC and Hypalon, the pros and cons of concrete and urea resin will be highlighted.

Instructor: An experienced aquatic gardening teacher, John B. Mirgon is a board member of the International Water Lily Society and former president of the Colorado Water Garden Society.

Fee: \$8 members/\$10 nonmembers

Selection and Maintenance of Spring Bedding Plants

Saturday, May 4

9:30 to 11:30 a.m.

Morrison Center

Spring is finally here and the garden centers and grocery stores are ablaze with colorful annuals, perennials, hanging baskets and vegetable transplants.

Learn the criteria for selecting and maintaining healthy plants, including the age of the transplant, the hardening-off process, soil enrichment, transplanting techniques and the varieties adapted to sun or shade.

Instructor: Judy Elliott

Fee: \$8 members/\$10 nonmembers

Class locations:

Classrooms A, B and C are at 1005 York Street, Denver.

The DBG Morrison Horticultural Demonstration Center is at 2320 East 11th Avenue, Denver.

Chatfield Arboretum is at 9201 South Carr Street, Littleton (southwest of Wadsworth Boulevard and C-470).

Basic Botany

(five sessions)

Mondays, April 1, 8, 15, 22 & 29

10 a.m. to noon

Visitor Center

Chatfield Arboretum

Learn what makes a plant's stem a stem even though it may grow beneath the ground, and explore the anatomy of flowers, leaves and roots.

Learn the relationships of plants and their importance in the environment.

Instructor: Chatfield Arboretum naturalist Jim Trammell.

Fee: \$40 members/\$48 nonmembers

Limit: 12

Colorado Conifers

Saturday, Feb. 23

1 to 3 p.m.

Visitor Center

Chatfield Arboretum

Learning to recognize the native Colorado conifer trees is the subject of this indoor session. You will learn to identify the trees by simple characteristics of the leaves (needles) and cones. Interesting facts and the natural histories of native conifer trees will be discussed.

Instructor: Jim Trammell

Fee: \$9 members/\$11 nonmembers (includes \$1 for materials)

Limit: 12

Winter Nature Walk

Sunday, Feb. 10

1 to 3 p.m.

(Gate opens at 12:30 p.m. Sunday)

Visitor Center

Chatfield Arboretum

Your whole family will enjoy this afternoon walk through the arboretum. The serenity of winter and the starkness of the trees offer excellent opportunities to observe winter wildlife. How plants and animals survive winter will also be explored. Come prepared for the weather. Hot chocolate will be served in the nature center.

Instructor: Chatfield Arboretum naturalist Jim Trammell

Fee: \$4 adult members/\$5 adult nonmembers. Children under 16 free.

Limit: 12 adult registrations

Basic Beekeeping

(three sessions)

Saturdays, Feb. 16, 23 & March 2

9 a.m. to noon

Polly Steele Nature Center

Chatfield Arboretum

This class is designed to show beginners how to get started in beekeeping, step by step. You will learn the entire procedure from setting up a hive to harvesting honey. A discussion of interesting facts about honey plants, bee behavior and ecology will also be included.

A field trip to a local apiculturist and beekeeping supplier is included. Reference books, supply catalogs and supplies will be on display.

Instructor: Carol Dawson, an enthusiastic teacher and beekeeper, is a research associate at Denver Botanic Gardens. She has kept bees for several enjoyable years.

Fee: \$36 members/\$43 nonmembers

Limit: 12

Animals in Winter

Saturday, Feb. 23

9 a.m. to 1 p.m.

Visitor Center

Chatfield Arboretum

Join this hands-on workshop and nature walk to learn how to interpret the tracks and other signs left by deer, cottontail rabbits and coyotes. We will make plaster casts of your favorite animal tracks.

Come dressed for the weather, as part of the session will be held outdoors. Also bring a lunch or snack; beverages will be available.

Instructors: Cecilia Armbrust is a naturalist at Roxborough State Park and tracker for the Arapahoe County Sheriff's Office. Jim Trammell is a naturalist at Chatfield Arboretum.

Fee: \$16 members/\$20 nonmembers

Limit: 12

Watercolor Painting

(five sessions)

Wednesdays, Feb. 20, 27

March 6, 13 & 20

Section I: 9:30 a.m. to 12:30 p.m.

Section II: 6:30 to 9:30 p.m.

Classroom B

Please indicate your section on the registration form.

Explore the sparkle and delicacy of watercolor painting while you enjoy the beautiful setting of Denver Botanic Gardens.

This course will cover the basic materials and techniques of watercolors, emphasizing freedom of personal expression.

Come prepared with supplies: a one-inch flat brush, #10 round brush, watercolor paper, tissues, container for water, plastic palette and cake or tube watercolors.

Instructor: Boris Shoshensky teaches drawing, watercolor and oil painting at Rocky Mountain College of Art and Design.

Fee: \$60 members/\$72 nonmembers

Limit: 15

Tree Walk at Fairmount Cemetery

Sunday, March 3

1:30 to 3:30 p.m.

Fairmount Cemetery

During the summers of 1890 and 1891 over 4,000 trees, including sycamores, silver maples, Kentucky coffee trees, pines and seven species of oaks, were planted at Fairmount Cemetery. A walk through these mature, historic specimens is an opportunity to observe these as well as other unusual trees, such as scarlet oaks and yellow buckeyes.

Instructor: Dr. William G. Gambill, Jr., DBG Director Emeritus and taxonomist, is a former botany and biology professor.

Meet: Inside the entrance of Fairmount Cemetery, East Alameda and Quebec Streets.

Fee: \$8.50 members/\$9.25 nonmembers (includes *Trail of Trees*, a 64-page illustrated guide to Fairmount Cemetery, valued at \$3)

Limit: 16

Nature Photography

(two sessions)

Saturdays, March 9 & 16

9:00 a.m. to noon

Visitor Center

Chatfield Arboretum

Enhance your skills as a nature photographer by learning basic photographic principles, camera and lens use, exposure, film and basic composition. After indoor instruction an outdoor practice session will reinforce your newly acquired knowledge. Novice photographers and those with moderate familiarity of 35mm cameras will benefit from these sessions.

Please bring a 35mm SLR camera (preferably one with manual functions), 1 or 2 rolls of 35mm color slide film and, if available, a camera owner's manual. A tripod is recommended.

Instructor: Stephen Bernard is an avid naturalist, professional photographer and photography teacher.

Fee: \$24 members/\$29 nonmembers

Limit: 12

Denver Botanic Gardens School of Botanical Illustration

Accredited by the University of Colorado

The School of Botanical Illustration will offer a series of courses providing a comprehensive education in the scientific illustration of plants. Students will have the opportunity to start with fundamental principles and drawing skills, and systematically learn the techniques of many media, as well as focus on design and composition.

After successfully finishing the six required courses, students will receive a certificate of completion. The School of Botanical Illustration is open to amateur, professional and student artists. Students may choose to take courses without receiving college credit.

One college credit hour will be awarded for each pair of six-week classes completed, either I and II, III and IV, or V and VI. Classes are graded and homework is required only for students seeking college credit. Questions, including those about eligibility to enter above the beginning level, should be directed to the education department at 370-8020.

II. Drawing in Color

Thursdays, Feb. 28 to April 11
(skip March 21)
(six sessions)

Section 1: 9:30 to 11:30 a.m.
Section 2: 12:30 to 2:30 p.m.
Classroom B

Students will begin to work in colored pencil, refining their skills to accurately and realistically produce renderings of plants. The emphasis is on proper technique to achieve highlights, depth and texture.

Fee: \$50 members/\$60 nonmembers for non-credit students. College credit course fee is \$125 for Parts I (January — sold out) and II.

III. Beginning Watercolor

Thursdays, April 18 to May 30
(skip May 9)
(six sessions)

Section 1: 9:30 to 11:30 a.m.
Section 2: 12:30 to 2:30 p.m.
Classroom B

This class is an introduction to watercolor theory, color mixing and brush techniques for botanical illustration. Students will experiment with washes and dry brush techniques in transparent and opaque manners, and use watercolor to build an accu-

rate rendering of plants and flowers drawn in previous courses.

Fee: \$50 members/\$60 nonmembers for non-credit students. College credit course fee is \$125 for Parts III and IV.

IV. Drawing for Publication

Thursdays, June 6 to July 18
(skip July 4)
(six sessions)

Section 1: 9:30 to 11:30 a.m.
Section 2: 12:30 to 2:30 p.m.
Classroom B

Students will apply the skills learned in previous courses to draw plants for publication. Techniques include pen and ink, scratchboard, paste-up, layout, overlays and corrections. Students will learn to prepare illustrations for reduction and enlargement and will work with lettering and printing techniques.

Fee: \$50 members/\$60 nonmembers for non-credit students. College credit course fee is \$125 for III and IV.

V. Botanical Illustration, Mixed Media

Thursdays, July 25 to Aug. 29
(six sessions)

Section 1: 9:30 to 11:30 a.m.
Section 2: 12:30 to 12:30 p.m.
Classroom B

Students will continue to work with the techniques already described,

along with optional media such as pastels and acrylics to create a portfolio of botanical illustrations in color. The emphasis of this class is on accuracy, personal development and refinement, as well as proper matting and presentation of works.

Fee: \$50 members/\$60 nonmembers for non-credit students. College credit course fee is \$125 for Parts V and VI.

VI. Advanced Botanical Illustration

Thursdays, Sept. 5 to Oct. 10
(six sessions)

Section 1: 9:30 to 11:30 a.m.
Section 2: 12:30 to 2:30 p.m.
Classroom B

Students will continue to work in their choice of media and will be expected to produce a portfolio of the highest quality. The emphasis of the course is on personal growth and individualized instruction.

Fee: \$50 members/\$60 nonmembers for non-credit students. College credit course fee is \$125 for Parts V and VI.

Instructors: Rob Proctor, author and illustrator, and Angela Overy, designer and illustrator, coordinate this program and teach the majority of these classes. Guest instructors Paula Nicholas, Shari Jones, Michael Eagleton and Carolyn Crawford broaden the curriculum by teaching specialized skills in some of the classes.

Registration Form for Classes, Field Trips and Lectures

Enclosed is _____ to cover the registration fees for the following classes:

Name and section of class(es) _____

Name _____

Member of Denver Botanic Gardens? ☐ Yes ☐ No

Member ID _____
(on top line of newsletter address label)

Address _____

City _____ ZIP code _____

Daytime Phone _____ Evening Phone _____

Cash ☐ Check ☐ VISA ☐ MC ☐

_____ Exp. _____

Signature _____

Registration

Class fees must be paid in advance by credit card, check or money order made out to Denver Botanic Gardens. Phone registration will be accepted for credit card payment only. Space in many classes is limited. You will be enrolled in class the day your payment is received. All classes are subject to a minimum of ten students. For further information, please call 370-8020.

FEB

Plant Societies at DBG

Many plant and horticultural societies meet regularly at DBG. For their meeting times, or to contact a representative of any group in which you are interested, call Denver Botanic Gardens during business hours: 331-4000.

Coming Up

Classes are in italics. Asterisk* indicates the first meeting of a class with more than one session.

February 1991

- 2 *Pasta II (I)*
- 3 *Pasta II (II)*
- 6 **Decorating with Housplants*
- 9 *Backyard Composting (I)*
**Trough Garden Workshop*
Winter Pruning
- 10 *Winter Nature Walk (II)*
- 16 *Backyard Composting (II)*
**Basic Beekeeping*
Designer Pizzas (I)
Know and Grow Ground Covers
Miniature Roses Workshop (I)
- 17 *Designer Pizzas (II)*
- 19 *The Half-Barrel*
Introduction to DBG's Library
- 20 **Watercolor Painting (I & II)*
- 23 *Animals in Winter*
Colorado Conifers
"The Romantic Garden"
Symposium
- 26 *Miniature Roses Workshop (II)*
- 28 **Drawing in Color 1 & 2*

March 1991

- 1 *Summer internship applications due*
- 9 **Basics of Organic Gardening (II)*
**Nature Photography*
- 27 *ABC's of Pruning*



Discover beautiful plant details during a winter walk through the Gardens.



SCIENTIFIC
& CULTURAL
FACILITIES
DISTRICT

Denver Botanic Gardens is grateful for funds from the Scientific and Cultural Facilities District (SCFD), which enable the Gardens to better maintain its facilities, expand services and enhance the quality of programs and exhibits.

Denver Botanic Gardens, Inc.
909 York Street
Denver, Colorado 80206
303-331-4000

Address correction requested

TIME VALUE

February 1991



Non Profit Org.
U.S. Postage
PAID
Permit No. 205
Denver, CO



Chatfield Arboretum Schedule

April 1 - October 31
1991

9 a.m. to 5 p.m. daily
except Mondays

Monday	closed
Tuesday	scheduled tours only
Wednesday	scheduled tours only
Thursday	scheduled tours only
Friday	general admission
Saturday	general admission
Sunday	general admission

NEWS

Denver Botanic Gardens March 1991 Number 91-3



*The wetlands
at Chatfield
Arboretum
are a favorite
destination of
visiting
naturalists.*

Inside:

*Gardening:
IPM
page 2*

*Annual dinner
page 2*

*Cactus show
page 3*

*Orchid
auction
page 3*

*Grapevine
class
page 4*

*Italian
cooking
classes
page 7*

*Coming up
page 8*

Arboretum to Open for Second Season

Chatfield Arboretum will open to the public beginning April 1 for its second season and will remain open through October 31. Members of Denver Botanic Gardens, school groups and children under 16 are admitted free at the Arboretum. A daily fee of \$1 per person is charged for nonmembers.

Picnic facilities are available on a first-come basis during the regular open hours. Reservations for some facilities (gazebo, meeting rooms, schoolhouse, outdoor amphitheater, tractor-pulled hayrides and a people carrier) can be made for special occasions. Many nature classes and special activities for children and adults will be scheduled throughout the year.

Winter admission, November 1 through March 31, is limited to classes, tours by appointment and special activities as announced. There is no unscheduled admission to the Arboretum during the winter. Watch for classes and activities — winter or summer — in the *Green Thumb News*. Call the Arboretum for further information, 973-3705.

Gardening: IPM for a Healthy Future

Integrated Pest Management (IPM) is an environmentally responsible approach to minimizing garden damage by disease organisms and pests. As the name implies, IPM is founded on the integration of many techniques and products. Cultural, biological, manual and chemical practices all need consideration as you determine the most appropriate action.

Careful planning is key to successful, healthy gardening. The single most important factor in any IPM program is placement and culture of each plant. Every garden space is a unique environment with its own special growing conditions. Become familiar with the soil, drainage, light intensity and duration, air circulation and temperature of each of your garden spaces before you plan your landscape. Most homes have at least four different microclimates to work with, allowing us to grow a wide variety of hardy plants in need of different growing conditions. Grouping plants with similar needs in compatible microclimates will help to ensure a balanced garden environment.

Successful IPM programs are dependent upon healthy, vigorous plants, as they are more resistant to garden pests and disease organisms. It is important to understand that IPM does not advocate the obliteration of any one species; because it may encourage the proliferation of another. Our aim is to keep the garden environment balanced. For instance, most healthy vegetable plants can endure damage on 25 percent of their leaves with no loss in productivity.

Another important component of IPM is careful observation of the life in our gardens. Balanced garden environments have pest populations — this is natural. Most garden pests have natural enemies that can reduce their populations by as much as 98 percent. When the pest/predator ratio becomes unbalanced, we suddenly notice we have pest problems.

Many common predator insect species are available to us to help balance our gardens. Among the beneficial insects

released for pest control at Denver Botanic Gardens are lady beetles, spined soldier bugs, green lacewings, and *trichogramma* wasps. *Encarsia formosa* and *cryptolaema* are used in the conservatory to control whiteflies and mealy bugs, respectively.

The most important consideration when planning a predator release is timing. Beneficial insects are living creatures and must have a food source. When ordering beneficials be sure to schedule their arrival to coincide with "normal" pest population increases and provide plenty of nectar-bearing flowering plants with long bloom seasons, as most adult predators are nectar feeders. As extra insurance, many suppliers offer synthetic nectar to keep beneficial populations going when there is a shortage of target pests. Your county extension office can be most helpful in tracking/predicting pest problems in your area.

Bacterial warfare is another alternative chemical pest control. *Bacillus thuringiensis* and *Bacillus papillae* provide very safe, effective control of many pests including cabbage worms, tomato horn worms, corn borers, rose chafers, mosquitoes, and lawn grubs (*B. papillae* only). The bacteria infect only target pests and only as they feed on your plants. For control of marauding grasshoppers we use *Nosema locustae*, a naturally occurring protozoa, which effects only grasshoppers.

Enticing insect-eating birds to your garden is a beautiful and rewarding application of IPM. To do this you must provide plants that are attractive to birds for food, shelter and nesting, and water for bathing and drinking. Robins and bluejays are among the most efficient insect eaters. As an integral part of our IPM program in the conservatory we have introduced one *Bufo marinus* (a toad) and ten large *Gecko* lizards for control of the cockroach population. Both have been used in pest management with varying degrees of success.

If a pest problem seems to be limited to one group of plants or to an area of manageable size, physical control may be the best solution. Three examples practiced at DBG are: washing mites and aphids off with a strong spray of water (daily); handpicking worms and caterpillars; and practicing garden sanitation. Removal of infested prunings, mulch and debris is of primary importance in the control of overwintering pests.

Here are some other non-chemical methods currently practiced at DBG. Diatomaceous earth is dusted on plant foliage. This microscopic silica talc will control a wide variety of soft-bodied pests such as aphids, mites and slugs. 'Hinder' rabbit repellent, when applied

to plants at three-week intervals, effectively repels our furry friends without harming them.

When all else fails it is time to consider more drastic solutions. We then carefully weigh the benefits of using a chemical control against the cost to our environment. Always choose the formulation that will be the least harmful, but will still do the job. Be sure to apply the product as recommended by the manufacturer and take the necessary precautions to protect the life in your garden.

For more information, visit or call the Gardens' Helen Fowler Library, 370-8014.

JoAnn Narverud, a DBG employee of 14 years, is operations supervisor for the grounds.

Annual Members Dinner: Geoffrey Rausch, "A Window on the Future"

Geoffrey Rausch of Environmental Planning and Design of Pittsburgh is this year's special guest speaker for the annual members' meeting and dinner. His topic is "Master Plan 2000: A Window on the Future," which will give members a forecast of Denver Botanic Gardens' changes as it prepares for the new century. Mr. Rausch is a specialist in the design and master planning of arboreta and botanic gardens from inception through construction. His firm is designing a master plan for Denver Botanic Gardens.

The annual dinner, open only to members of DBG, will be held Tuesday, April 16, 1991, in John C. Mitchell II Hall, 1005 York Street. Details are included in a special flyer in this issue of the *Green Thumb News*. Please use the form provided to make your reservations for a fascinating look into the future of your Denver Botanic Gardens.

Green Thumb News Number 91-3 March 1991

Published monthly by Denver Botanic Gardens, 909 York Street, Denver, Colorado 80206-3799, and edited by Larry Latta. Subscription to this newsletter is a benefit of membership in Denver Botanic Gardens. For information please write the membership department at the above address or call 370-8029.

March 18 is the deadline for the May 1991 newsletter.



Accredited by the
American Association
of Museums

Tributes

**In honor of Richard A. &
Susan C. Kirk**
Sarita Behr

In memory of Marie Eaton Dines
Tyson Dines III
Mr. & Mrs. John C. Mitchell II

In memory of Jetty Kirchen
Herbert & Bea Jones

In memory of Mary K. Knowles
Joanne W. Sinclair

In memory of Dr. Walter E. Vest, Jr.
Herbert & Bea Jones

DBG Sets 8 Free Days for Colorado Residents

Denver Botanic Gardens has set eight free days for Colorado residents in 1991 in response to its support from the Scientific and Cultural Facilities District. These days were chosen to offer opportunities to enjoy the floral displays through the seasons, as well as the winter lighting display:

Tuesday	March 12
Saturday	April 6
Sunday	May 12
Friday	May 17
Monday	September 16
Saturday	October 19
Friday	November 15
Wednesday	December 18

Spring African Violet Show and Sale March 23 & 24

DBG will overflow with the sparkling pastel colors of African Violets the weekend of March 23 and 24 when the Rocky Mountain African Violet Council holds its annual spring show and sale.

The event opens to the public from 1 to 4:45 p.m. Sunday. It is free to members, also free to nonmembers with their paid admission to the Gardens.

Chatfield Arboretum Celebrates Arbor Festival

Fun for the whole family! Chatfield Arboretum celebrates Arbor Day with the Arbor Festival on Saturday, April 20, from 10 a.m. to 4 p.m. Admission will be free during the festival. Tree seedlings will be given to each visitor who brings old newspapers, magazines, aluminum cans and bottles for recycling. Demonstrations on planting and caring for your trees will be conducted throughout the day.

Skilled artisans will demonstrate arts and crafts that use renewable or natural resources. You can make wooden whistles, spin wool, weave a basket, build a bird house or feeder, help construct a bent willow chair, construct bat houses, watch bees make honey, cook on a solar grill, observe wildlife, enjoy a country hayride, hear nature programs and much more. Food and picnic tables will be available.

Volunteers are needed to help plant 2,000 tree seedlings at the Arboretum for this celebration. Planting will start at 9 a.m.



Cacti and other succulents will attract thousands of fans to the Mar. 30 & 31 sale in John C. Mitchell II Hall.

Cactus Show and Sale Biggest in the Rockies

Cactus lovers will gather in John C. Mitchell II Hall Saturday and Sunday, March 30 and 31, for the annual show and sale by the Colorado Cactus and Succulent Society which bills the show as the greatest in the Rocky Mountains. Hours each day are 9 a.m. to 4:45 p.m.

Thousands of succulents will be on display and for sale, from two-inch indoor specimens to winter-hardy outdoor varieties. You can also pick up materials for a cactus dish garden and have it assembled free by society volunteers. Workshops, hourly prize drawings and other activities are planned.

Admission is included in the regular DBG gate fee. For more information call Kay or H.V. Rodman, 278-7590 or 431-6777.

Orchid Auction & Mini-Show at DBG in April

"The Denver Orchid Society will hold an auction of orchid plants at the Gardens on Saturday, April 6, at 1 p.m. The auction is part of an all-day mini-show, "Orchid Overtures," of beautiful blooming orchid plants from 9 a.m. to 4 p.m. During the day you will have a chance to vote your favorite flower for a "people's choice" award. (Orchids on display will not be for auction).

DBG members will want to take advantage of this rare opportunity to both see and purchase top-quality orchid plants for their collection. All auction plants will be in bloom or in bud.

Rock Gardeners Romancing Alpines March 15 & 16

"Romancing the Alpine II" is coming to the Gardens Saturday, March 16. Members of the Rocky Mountain Chapter of the American Rock Garden Society will sell alpine and other rock garden plants in John C. Mitchell II Hall from 9 a.m. to 4:45 p.m. A portion of the proceeds will benefit the world-renowned collection at Denver Botanic Gardens. At 11 a.m. and 2 p.m. DBG Rock Alpine curator Panayoti Kelaidis will conduct workshops in Classroom A on the basics of rock garden plant care.

The night before, the society will prepare for the public sale with a members-only auction and dessert party at 7 p.m.

Winter
1991

Denver Botanic Gardens

CLASSES

The Basics of Organic Gardening

(two sessions)

Section II: Saturdays, March 9 & 16

9:30 a.m. to 1:30 p.m.

Visitor Center

Chatfield Arboretum

The focus of this basic organic gardening course will be on feeding the soil to feed the gardener. The principles of composting, soil testing and amending humus content will be stressed. Early, mid-, late-season crops, season extenders, crop rotation, site selection, appropriate varieties of fruits and vegetables for our climate, and seed sources will all be covered.

Learn watering techniques, companion planting, how to start your own transplants, and how to prevent and control pests and diseases safely. There will be discussion of urban gardening techniques such as intensive gardening and wide-row, double dug beds as well as reference to lesser known varieties of easy-to-grow, nutritious vegetables.

Please bring a sack lunch.

Instructor: Judy Elliott is an enthusiastic teacher with 15 years of organic gardening experience. She is a master gardener who assists "Dr. Green" at DBG.

Fee: \$32 members/\$38 nonmembers

A Palette of Annuals

(two sessions)

Tuesdays, March 5 & 12

7 to 9 p.m. Classroom A

In Colorado we have a perfect climate for growing the brightest, most beautiful annuals. Beyond the old friends — petunias, alyssums and marigolds — lies a whole world of other gems waiting to be discovered, planted and grown.

Meet some of these lesser known annuals for all situations — for sun, drought, shade, fragrance, cutting and drying. Learn where to get them, how to grow them and how to combine them creatively with each other and with other plants.

Instructor: Lauren Springer studied horticulture at Penn State University. She is an experienced teacher who has gardened in England, Ireland, the Midwest and Colorado.

Fee: \$16 members/\$19 nonmembers

Propagation of Tropical Water Lilies

Tuesday, March 19

7 to 9 p.m. Classroom C

Learn the special skills of growing showy, tropical water lilies from seeds and tubers. Propagation techniques developed and practiced at DBG will be demonstrated during a visit to the DBG greenhouse. After the class you will take home seeds and/or tubers of plants in the Gardens' collections, including seeds of rare species.

Instructor: Joseph V. Tomocik

Fee: \$8 members/\$10 nonmembers

Limit: 20

ABC's of Pruning

Wednesday, March 27

9 a.m. to noon Classroom B

Through lecture, slides and demonstration, learn the ABC's of pruning and overcome your fear of making crucial cuts. Choosing and caring for pruning tools will also be covered.

There will be an outdoor pruning demonstration so please dress appropriately.

Instructor: Paul Groeger is a master gardener, former president of the Men's Garden Club of Denver and a long-time volunteer at Chatfield Arboretum.

Fee: \$12 members/\$14 nonmembers

Limit: 12

Xeriscaping Your Home

(four sessions)

Tuesdays, April 2, 9, 16 & 23

6:30 to 9:30 p.m.

Visitor Center

Chatfield Arboretum

This class will guide you through a do-it-yourself project using the seven basic fundamentals of xeriscaping. You will learn how to start and complete a landscape plan to suit your desires, needs and budget.

You will learn how to reduce blue-grass areas, increase ground covers, use low water plants, develop watering zones, select efficient irrigation systems, improve soil, use mulches and plan alternatives to rocks and gravel.

Instructor: Thomas L. Stephens, a professional landscape architect with many years of design and teaching experience, is co-authoring a book, *Xeriscape: Common Sense Landscaping*.

Fee: \$53 members/\$64 nonmembers (includes \$5 materials fee)

Limit: 12

Beginning Bonsai

(four sessions)

Thursdays, April 4, 11, 18 & 25

7:30 to 9:30 p.m.

Classroom B

This popular introductory course will cover the history and culture of bonsai, as well as instruction on styling, training, potting and care of bonsai plants. Each student will take home a completed bonsai. All materials will be provided.

Instructors: Keith Jeppson, former president of the Rocky Mountain Bonsai Society, is an experienced bonsai hobbyist of 18 years. Harold Sasaki has been a commercial bonsai grower for 19 years.

Fee: \$56.50 members/ \$62.50 nonmembers (includes \$22 for materials)

Limit: 16

How to Train Your Grapevine

Saturday, April 6

(Rain date April 13)

Noon to 2 p.m.

Classroom B

How do you prune grapevines? Can you train an old vine? What is a "bull cane"? Can you prune your vines in their first year? In this hands-on workshop, you will learn all the techniques of training grapevines. Each student will have an opportunity to practice on vines in the DBG Herb Garden.

Participants should bring sharp pruning shears, gloves and warm clothing.

Instructor: Moras L. Shubert

Fee: \$16 members/ \$18 nonmembers

Limit: 12

Vegetable Gardening for Results

(four sessions)

Saturdays, April 6, 13, 20 & 27

1 to 4 p.m. Morrison Center

This series of vegetable gardening classes will introduce you to organic methods.

Register for all or for individual classes.

Soil Preparation: April 6

Enriching soil is a critical part of any gardening program. Learn about compost — how to make it and use it — organic methods of fertilizing and double-digging techniques of bed construction.



The Basics of Organic Gardening

(two sessions)

Section II: Saturdays, March 9 & 16

9:30 a.m. to 1:30 p.m.

Visitor Center
Chatfield Arboretum

The focus of this basic organic gardening course will be on feeding the soil to feed the gardener. The principles of composting, soil testing and amending humus content will be stressed. Early, mid-, late-season crops, season extenders, crop rotation, site selection, appropriate varieties of fruits and vegetables for our climate, and seed sources will all be covered.

Learn watering techniques, companion planting, how to start your own transplants, and how to prevent and control pests and diseases safely. There will be discussion of urban gardening techniques such as intensive gardening and wide-row, double dug beds as well as reference to lesser known varieties of easy-to-grow, nutritious vegetables.

Please bring a sack lunch.

Instructor: Judy Elliott is an enthusiastic teacher with 15 years of organic gardening experience. She is a master gardener who assists "Dr. Green" at DBG.

Fee: \$32 members/\$38 nonmembers

A Palette of Annuals

(two sessions)

Tuesdays, March 5 & 12

7 to 9 p.m. Classroom A

In Colorado we have a perfect climate for growing the brightest, most beautiful annuals. Beyond the old friends — petunias, alyssums and marigolds — lies a whole world of other gems waiting to be discovered, planted and grown.

Meet some of these lesser known annuals for all situations — for sun, drought, shade, fragrance, cutting and drying. Learn where to get them, how to grow them and how to combine them creatively with each other and with other plants.

Instructor: Lauren Springer studied horticulture at Penn State University. She is an experienced teacher who has gardened in England, Ireland, the Midwest and Colorado.

Fee: \$16 members/\$19 nonmembers

Propagation of Tropical Water Lilies

Tuesday, March 19

7 to 9 p.m. Classroom C

Learn the special skills of growing showy, tropical water lilies from seeds and tubers. Propagation techniques developed and practiced at DBG will be demonstrated during a visit to the DBG greenhouse. After the class you will take home seeds and/or tubers of plants in the Gardens' collections, including seeds of rare species.

Instructor: Joseph V. Tomocik

Fee: \$8 members/\$10 nonmembers

Limit: 20

ABC's of Pruning

Wednesday, March 27

9 a.m. to noon Classroom B

Through lecture, slides and demonstration, learn the ABC's of pruning and overcome your fear of making crucial cuts. Choosing and caring for pruning tools will also be covered.

There will be an outdoor pruning demonstration so please dress appropriately.

Instructor: Paul Groeger is a master gardener, former president of the Men's Garden Club of Denver and a long-time volunteer at Chatfield Arboretum.

Fee: \$12 members/\$14 nonmembers

Limit: 12

Xeriscaping Your Home

(four sessions)

Tuesdays, April 2, 9, 16 & 23

6:30 to 9:30 p.m.

Visitor Center
Chatfield Arboretum

This class will guide you through a do-it-yourself project using the seven basic fundamentals of xeriscaping. You will learn how to start and complete a landscape plan to suit your desires, needs and budget.

You will learn how to reduce blue-grass areas, increase ground covers, use low water plants, develop watering zones, select efficient irrigation systems, improve soil, use mulches and plan alternatives to rocks and gravel.

Instructor: Thomas L. Stephens, a professional landscape architect with many years of design and teaching experience, is co-authoring a book, *Xeriscape: Common Sense Landscaping*.

Fee: \$53 members/\$64 nonmembers (includes \$5 materials fee)

Limit: 12

Beginning Bonsai

(four sessions)

Thursdays, April 4, 11, 18 & 25

7:30 to 9:30 p.m.

Classroom B

This popular introductory course will cover the history and culture of bonsai, as well as instruction on styling, training, potting and care of bonsai plants. Each student will take home a completed bonsai. All materials will be provided.

Instructors: Keith Jeppson, former president of the Rocky Mountain Bonsai Society, is an experienced bonsai hobbyist of 18 years. Harold Sasaki has been a commercial bonsai grower for 19 years.

Fee: \$56.50 members/\$62.50 nonmembers (includes \$22 for materials)

Limit: 16

How to Train Your Grapevine

Saturday, April 6

(Rain date April 13)

Noon to 2 p.m.

Classroom B

How do you prune grapevines? Can you train an old vine? What is a "bull cane"? Can you prune your vines in their first year? In this hands-on workshop, you will learn all the techniques of training grapevines. Each student will have an opportunity to practice on vines in the DBG Herb Garden.

Participants should bring sharp pruning shears, gloves and warm clothing.

Instructor: Moras L. Shubert

Fee: \$16 members/\$18 nonmembers

Limit: 12

Vegetable Gardening for Results

(four sessions)

Saturdays, April 6, 13, 20 & 27

1 to 4 p.m. Morrison Center

This series of vegetable gardening classes will introduce you to organic methods.

Register for all or for individual classes.

Soil Preparation: April 6

Enriching soil is a critical part of any gardening program. Learn about compost — how to make it and use it — organic methods of fertilizing and double-digging techniques of bed construction.

Denver Botanic Gardens

February

- 12 Bonfils-Stanton Lecture:
J.C. Raulston, "Exciting
New Plants for the
Landscape"
22 & 23 Romantic Garden
Symposium

March

- 6 Colorado Greenhouse
Growers: Professional
Perennial Growers
Symposium
12 Free Day
15 & 16 Rocky Mountain Chapter
of the American Rock
Garden Society: Alpine
Plant Sale
23 & 24 Rocky Mountain African
Violet Council: African
Violet Show and Sale
30 & 31 Colorado Cactus and
Succulent Society:
Succulent Show and Sale

April

- 6 Free Day
Denver Orchid Society:
Orchid Auction
7 Denver Rose Society:
Rose Symposium
19-21 Ikebana International:
Flower Show
20 Chatfield Arboretum
Arbor Day

May

- 9 "Flowering of Denver"
Plant and Used Book
Sale Preview Party
10 & 11 Denver Botanic Gardens'
Annual Plant & Used
Book Sale
12 Free Day
17 Free Day
Environment Day
22 Denver Botanic Gardens
Guild: Herb Garden Open
House
25 Denver Rose Society: Old
Garden Roses Workshop
and Show

June

- 1 & 2 American Iris Society:
Iris Show
8 & 9 Rocky Mountain Water
Garden Society, Colorado
Koi Club & Colorado
Aquarium Society:
Water Gardening Weekend
15 & 16 Rocky Mountain Bonsai
Society: Bonsai Exhibition
23 Denver Rose Society:
Rose Show
25 Young Audiences Concert

July

- 2-7 Colorado Watercolor
Society Exhibition
9 Young Audiences Concert
11, 13 & 14 Wildflower and
Landscape Photography
Workshop
20 American Iris Society:
Iris Rhizome Sale
23 Young Audiences Concert
27 American Hemerocallis
Society: Colorado Daylily
Show & Sale

August

- 1-11 Glass Arts Fellowship:
"Glass at the Gardens"
16 Denver Rose Society:
Miniature Rose Show
23-25 Colorado Greenhouse
Growers Association:
Perennials Symposium
24 Members' Picnic at
Chatfield Arboretum
27-31 Denver Allied Artists:
Show and Sale

September

- 1 Men's Garden Club
of Denver: Plant and
Produce Sale
6 Fete des Fleurs
14 Members' Plant
Dividend Day
14 & 15 Gloxinia Gesneriad
Growers: Gesneriad
Show and Sale
16 Free Day

October

- 12 Chatfield Arboretum
Pumpkin Festival
19 Free Day
Rocky Mountain African
Violet Council: Fall
African Violet Sale
25-27 Pumpkin Art Contest
& Display

November

- 1-3 "Botanical Treasures VI"
Antique Botanical
Illustrations Show
and Sale
6 Carl Tempel Wildflower
Lecture
15 Free Day
15 & 16 Denver Botanic
Gardens: Holiday Sale

December

- 6 Members' "Herald the
Season"
7-31 Blossoms of Light
7 Teddy Bear Teas
8 High Teas
10 & 12 Holiday Concerts
14 Teddy Bear Teas
15 High Teas
17 & 19 Holiday Concerts
18 Free Day
25 Christmas (closed)



Denver Botanic Gardens

February

- 12 Bonfils-Stanton Lecture:
J.C. Raulston, "Exciting
New Plants for the
Landscape"
22 & 23 Romantic Garden
Symposium

March

- 6 Colorado Greenhouse
Growers: Professional
Perennial Growers
Symposium
12 Free Day
15 & 16 Rocky Mountain Chapter
of the American Rock
Garden Society: Alpine
Plant Sale
23 & 24 Rocky Mountain African
Violet Council: African
Violet Show and Sale
30 & 31 Colorado Cactus and
Succulent Society:
Succulent Show and Sale

April

- 6 Free Day
Denver Orchid Society:
Orchid Auction
7 Denver Rose Society:
Rose Symposium
19-21 Ikebana International:
Flower Show
20 Chatfield Arboretum
Arbor Day

May

- 9 "Flowering of Denver"

August

- 1-11 Glass Arts Fellowship:
"Glass at the Gardens"
16 Denver Rose Society:
Miniature Rose Show
23-25 Colorado Greenhouse
Growers Association:
Perennials Symposium
24 Members' Picnic at
Chatfield Arboretum
27-31 Denver Allied Artists:
Show and Sale

September

- 1 Men's Garden Club
of Denver: Plant and
Produce Sale
6 Fete des Fleurs
14 Members' Plant
Dividend Day
14 & 15 Gloxinia Gesneriad
Growers: Gesneriad
Show and Sale
16 Free Day

October

- 12 Chatfield Arboretum
Pumpkin Festival
19 Free Day
Rocky Mountain African
Violet Council: Fall
African Violet Sale
25-27 Pumpkin Art Contest
& Display

November

- 1-3 "Botanical Treasures VI"
Antique Botanical
Illustrations Show

The Board of Trustees
of
Denver Botanic Gardens



cordially invites you to attend the

Members' Annual Meeting and Dinner

Guest Speaker
Goeffrey Rausch
of

Environmental Planning and Design

**Master Plan 2000:
A Window on the Future**

Tuesday, April 16, 1991

Cocktails at 6 p.m.
Cash bar
Dinner at 6:45 p.m.
A brief meeting follows.

**Reservations required
\$15 each**

**Reservations must be postmarked
by April 9, 1991**

Mail with check made out to:

**Denver Botanic Gardens
909 York Street
Denver, CO 80206**

Reservation Form:

Mail before April 9, 1991

**Goeffrey Rausch
Master Plan 2000: A Window on the Future**

Enclosed is \$_____ for _____ Member(s).

Name _____ Membership Number _____

Address _____ City _____ State _____ ZIP _____

Day Phone _____ Evening Phone _____

Cole Crops, Lettuce and Other Greens: April 13

Broccoli, cabbage, cauliflower, bok choy and Chinese cabbage are healthful, easily grown vegetables especially suited for cool spring and fall growing conditions. Learn how to grow an assortment of salad greens and how to do succession planting, intercropping and fertilizing.

The Tomato and its Relatives: April 20

Tomatoes, peppers and eggplants are all members of the deadly nightshade family. Learn superior varieties for your needs and how to maximize yield. Seed sources for unusual varieties will be provided.

Beyond the May Planting Frenzy: April 27

This session will focus on appropriate crops for the late-summer-to-fall garden. Many plants respond well to shorter daylight hours and cooler temperatures.

Instructor: Judy Elliott is an enthusiastic teacher with 15 years of organic gardening experience. She is a master gardener who assists “Dr. Green” at Denver Botanic Gardens.

Fee: \$12 members/\$14 nonmembers for single sessions. Entire series is \$40 members/\$48 nonmembers.

Xeriscape for the Urban Gardener

(four sessions)

Tuesdays, April 9, 16, 23 & 30
7 to 9 p.m.
Morrison Center

This course will cover basic horticulture and design principles to help you create a landscape that is functional, easy to maintain, water-efficient and beautiful. Slide shows, in-class exercises and discussions will teach you about xeriscape and the seven concepts that make it appropriate for our semi-arid environment.

Topics are design and renovation, plants for Colorado, landscape maintenance and “xerigation.” Handouts will be provided.
Landscaping for Water Conservation: Xeriscape! will be available in class for \$3.

Bring pencils and a plan of your property showing the layout of your home, existing plantings and other permanent features.

Instructor: Anna Thurston, water conservation specialist for the City of Aurora, has owned a landscape design business.

Fee: \$32 members/ \$38 nonmembers

Limit: 30

The Aquatic Garden: Basic Pool Construction

Wednesday, April 10
7 to 9 p.m. **Classroom C**

Backyard gardeners and do-it-yourself enthusiasts will learn how to install pools from start to finish. Site selection and design considerations, as well as how to use membrane liners, will be discussed. Although emphasis will be placed on PVC and Hypalon, the pros and cons of concrete and urea resin will be highlighted.

Instructor: An experienced aquatic gardening teacher, John B. Mirgon is a board member of the International Water Lily Society and former president of the Colorado Water Garden Society.

Fee: \$8 members/\$10 nonmembers

Cacti and Other Succulents for Beginners

Section I : Wednesday, April 10
Section II: Wednesday, May 15
7 to 9 p.m.
Morrison Center

(Please indicate your section on the registration form.)

Discover the basics of successfully growing succulent plants (including cacti) on your windowsill, in the basement and on the patio. All aspects of cultivation such as light, temperature, water, fertilizer, soil, pots, propagation and pests will be discussed. You'll even learn the benefits of treating your indoor plants to a summer outing in the backyard.

Each student will take home a potted plant compliments of the Colorado Cactus and Succulent Society.

Instructor: Don Campbell is an avid hobbyist who has filled every conceivable nook and cranny in his house with these plants. He's also an active member of the Colorado Cactus and Succulent Society.

Fee: \$8 members/ \$10 nonmembers

Limit: 20

Winter Botany

Saturday, March 23
10 a.m. to 2 p.m.
Polly Steele Nature Center
Chatfield Arboretum

Learn to recognize trees and shrubs without their leaves. Growth form, silhouettes, winter fruits, twigs and bud characteristics will be used as aids in identification. Participants will learn to use a winter plant key during both indoor and outdoor sessions.

Please bring a hand lens if you have one. Come dressed for the weather of the day and bring a sack lunch.

Instructor: Vickey Trammel is a popular instructor at Arapahoe Community College, Roxborough State Park, Chatfield Arboretum, the Rocky Mountain Nature Association, and the Colorado Division of Wildlife.

Fee: \$20 members/ \$24 nonmembers (includes \$4 for materials)

Limit: 12

Water Gardening for Colorado

(two sessions)

Wednesdays, April 17 & 24
7 to 9 p.m.
Classroom C

Know that your first adventure into water gardening will be a colorful success. Learn the appropriate plants for Colorado's climate and techniques for cultivation and display.

A slide presentation will illustrate water lilies, water lotuses and bog plants. “Putting it all together” will be emphasized in a tour of DBG's greenhouses. Plant sources will be given.

Instructor: Joseph V. Tomocik, horticulturist of the DBG water gardens since 1982, has lectured at DBG, Longwood Gardens and Missouri Botanical Garden.

Fee: \$16 members/ \$19 nonmembers

Basic Botany

(five sessions)

Mondays, April 1, 8, 15, 22 & 29

10 a.m. to noon
Visitor Center
Chatfield Arboretum

Learn what makes a plant's stem a stem even though it may grow beneath the ground, and explore the anatomy of flowers, leaves and roots.

Learn the relationships of plants and their importance in the environment.

Instructor: Chatfield Arboretum naturalist Jim Trammell.

Fee: \$40 members/\$48 nonmembers

Limit: 12

Botany for Beginners

(four sessions)

Thursdays, April 4, 11, 18 & 25
6 to 8 p.m.
Classroom C

This course will provide a brief but thorough scientific introduction to plants: their structure, how they grow, basic physiology, how to give them what they need and something about plant ecology.

Living plant materials and microscope slides will be used, as well as an illustrated syllabus to serve as visual and hands-on aids.

continued on page 6

continued from page 5

Instructors: Moras L. Shubert, Ph.D., is professor emeritus of botany at the University of Denver. Paula Ogilvie is the director of the DU biology lab. Both have extensive teaching experience.

Fee: \$32 members/ \$38 nonmembers

Limit: 30

Tree Walk at Fairmount Cemetery

Sunday, March 3

1:30 to 3:30 p.m.

Fairmount Cemetery

During the summers of 1890 and 1891 over 4,000 trees, including sycamores, silver maples, Kentucky coffee trees, pines and seven species of oaks, were planted at Fairmount Cemetery. A walk through these mature, historic specimens is an opportunity to observe these as well as other unusual trees, such as scarlet oaks and yellow buckeyes.

Instructor: Dr. William G. Gambill, Jr., DBG Director Emeritus and taxonomist, is a former botany and biology professor.

Meet: Inside the entrance of Fairmount Cemetery, East Alameda and Quebec Streets.

Fee: \$8.50 members/\$9.25 nonmembers (includes *Trail of Trees*, a 64-page illustrated guide to Fairmount Cemetery, valued at \$3)

Limit: 16

Winter Nature Walk

Sunday, March 10

1 to 3 p.m.

(Gate opens at 12:30 p.m.)

Visitor Center

Chatfield Arboretum

(Please indicate your section on the registration form.)

Your entire family will enjoy this afternoon walk through the arboretum. The serenity of winter and the starkness of the trees offer excellent opportunities to observe winter wildlife. How plants and animals survive winter will also be explored. Hot chocolate will be served in the nature center. Come prepared for the weather.

Instructor: Chatfield Arboretum naturalist Jim Trammell.

Fee: \$4 adult members/\$5 adult nonmembers, children under 16, free.

Limit: 12 adult registrants

Explore Chatfield Arboretum

Sunday, April 7

1 to 3 p.m.

Visitor Center

Chatfield Arboretum

Chatfield Arboretum consists of a historic farm, foothills plant communities, wetlands and a streamside riparian community (Deer Creek). An extensive network of trails provides an opportunity to see waterfowl, nesting owls and grazing deer.

Wear sturdy walking shoes; dress for changes in the weather; and bring drinking water, camera and binoculars. Plan to enjoy your lunch at the picnic area.

Meet: At the Visitor Center (the old Deer Creek school) of Chatfield Arboretum promptly at 1 p.m.

Leaders: DBG naturalist Jim Trammell and Chatfield Arboretum's volunteer guides

Fee: \$4 members/ \$5 nonmembers

Limit: 20

Rocky Mountain Arsenal Field Trip

Sunday, April 21

1 to 3:30 p.m.

West Gate,

Rocky Mountain Arsenal

Learn about the history of Rocky Mountain Arsenal and the current plans for cleaning-up the contamination from past production and storage of weapons and chemicals. See how this 27-mile island in a sea of civilization is coming back to life with bald and golden eagles guarding its skies. You can expect to see hawks, coyotes, mule deer and white-tailed deer.

Meet: Shortly after 1 p.m. at the west gate, 72nd Avenue and Quebec Street, in Commerce City. A bus will meet you there and take you into the arsenal. No private cars are allowed on the grounds.

Instructor: A park ranger or wildlife biologist from the U.S. Fish and Wildlife Service will lead this tour.

Fee: No charge, but advance reservation is required. Call 370-8020 between 8 a.m. and 5 p.m., or use the registration form.

Limit: 70

Behind the Scenes Greenhouse Tours

Section I: Saturday, April 20
1 to 2 p.m.

Section II: Sunday, April 28
1 to 2 p.m.

(Please indicate your section on the registration form.)

Ever wonder what goes on behind the beautiful displays at DBG? Now is your chance to view propagation facilities, the service greenhouses and the orchid and bromeliad house — behind-the-scenes collections seldom accessible to the public.

Meet: Main Lobby

Tour Leaders: DBG greenhouse staff

Fee: \$2

Limit: 15

Ornamental Grasses

Monday, April 22

6 to 8 p.m.

Classroom C

The graceful beauty of ornamental grasses is sweeping through the landscaping imaginations of the country. Slides and a tour (depending upon the weather) familiarize you with the best varieties, cultural requirements and plant sources. Particular attention will be given to the many varieties displayed at Denver Botanic Gardens.

Instructor: Staff member Joseph V. Tomocik has cared for the ornamental grasses at the Gardens and has effectively used them in annual displays.

Fee: \$8 members/ \$10 nonmembers

Limit: 20

Bromeliad Workshop

Saturday, April 27

9:30 to 11:30 a.m.

Classroom C

This lecture and demonstration will give you the basic care of epiphytic, or tree-dwelling bromeliads, as well as the terrestrials grown in pots. In a hands-on session you will have the opportunity to mount a small bromeliad on cork bark to take home. All materials are provided.

Instructor: DBG greenhouse supervisor, Gary Davis, has many years experience with bromeliads and orchids.

Fee: \$12 members/ \$15 nonmembers (includes \$4 for materials)

Limit: 15

Watercolor Painting

(five sessions)

Wednesdays, April 3, 10, 17, 24 & May 1

Section I: 9:30 a.m. to 12:30 p.m.

Section II: 6:30 to 9:30 p.m.

Classroom B

(Please indicate your section on the registration form)

Explore the sparkle and delicacy of watercolor painting while you enjoy the natural setting of Denver Botanic Gardens. This course will cover the basic materials and techniques of watercolors, with emphasis on freedom of personal expression.

Come prepared with supplies: a one-inch flat brush, #10 round brush, watercolor paper, tissues, container for water, plastic palette and cake or tube watercolors.

Instructor: Boris Shoshenky teaches drawing, watercolor and oil painting

at Rocky Mountain College of Art and Design.

Fee: \$60 members/ \$72 nonmembers

Limit: 15

Italian Cooking with Judith Fine-Sarchielli

(Please bring a small chef's knife, paring knife, apron and a cutting board if you wish to participate in the hands-on part of these classes.)

The cuisine of Tuscany, a mountainous region in northern Italy, is distinguished by its frugality and elegant simplicity. Because typical dishes rely heavily on seasonal, fresh produce and a deft hand with herbs, these classes are well suited to the gardener who cooks.

Instructor: An accomplished chef, caterer, food consultant, teacher and designer, Judith Fine-Sarchielli lived in Italy for 15 years.

Fee for each class: \$16.50 members/ \$20 nonmembers (includes \$4.50 for materials)

Limit for each class: 12

Spring Main Dishes with Herbs

Sunday, March 10
1:00 to 3:30 p.m.
Kitchen, next to DBG Library

These classic Tuscan Sarchielli family recipes for main courses and their sauces will inspire your springtime family meals as well as dinner parties. Herbs are prominent ingredients in these dishes: roast chicken and rosemary potatoes, rabbit cacciatori and poached fish with green herb and caper sauce.

Classic Tuscan Antipasti

Sunday, March 17
1:00 to 3:30 p.m.
Kitchen, next to DBG Library

Your palate will be tickled by this intriguing assortment of centuries-old hors d'oeuvres and antipasti that are delicately seasoned with herbs. Chicken liver toasts, mozzarella in a golden batter crust and polenta strips with fennel seeds and sausage are sample recipes from the Sarchielli family kitchen that will be prepared.

Class locations:

Classrooms A, B and C are at 1005 York Street, Denver.

The DBG Morrison Horticultural Demonstration Center is at 2320 East 11th Avenue, Denver.

Chatfield Arboretum is at 9201 South Carr Street, Littleton (southwest of Wadsworth Boulevard and C-470).

Classic Tuscan First Courses

Saturday, April 13
9:30 a.m. to noon
Kitchen, next to DBG Library

Especially in Tuscany, first courses gently introduce the palate to the dining experience that follows. These dishes can also be enjoyed as lighter warm-weather entrees. Artichoke omelette, polenta gnocchi with parmesan sage sauce and ricotta gnocchi with fresh herb vinaigrette are all guaranteed to please.

Risotti - Classic Tuscan Rice Dishes

Saturday, April 27
9:30 a.m. to noon
Kitchen, next to DBG Library

Risotti are extremely popular "comfort foods." Their creamy, delicate consistency requires an exact knowledge of technique that is, fortunately, easy to master. Carefully seasoned risotto alla Milanese and shrimp curry risotto are Tuscan classics from the 19th century that will be prepared.

Drawing from Nature

(six sessions)
Thursdays, March 21, 28,
April 4, 11, 18 & 25
1 to 3 p.m.
Classroom A

From living plants to still lifes, from realism to abstraction, learn to see, sketch and draw natural forms and designs — then translate black and white studies into exciting color. You will receive instruction in assorted media and subject matter.

Bring a large sketch pad, soft char-

coal and drawing pencils to the first class.

Instructor: Oksana Ross, Ph.D., is an art historian, artist and pianist. She taught at the University of Colorado at Denver, Metropolitan State College and Colorado Women's College.

Fee: \$48 members/ \$58 nonmembers

Limit: 20

Nature Photography

(two sessions)

Saturdays, March 9 & 16

9:00 a.m. to noon
Visitor Center
Chatfield Arboretum

Enhance your skills as a nature photographer by learning basic photographic principles, camera and lens use, exposure, film and basic composition. After indoor instruction an outdoor practice session will reinforce your newly acquired knowledge. Novice photographers and those with moderate familiarity of 35mm cameras will benefit from these sessions.

Please bring a 35mm SLR camera (preferably one with manual functions), 1 or 2 rolls of 35mm color slide film and, if available, a camera owner's manual. A tripod is recommended.

Instructor: Stephen Bernard is an avid naturalist, professional photographer and photography teacher.

Fee: \$24 members/\$29 nonmembers

Limit: 12

Registration Form for Classes, Field Trips and Lectures

Enclosed is _____ to cover the registration fees for the following classes:

Name and section of class(es) _____

Name _____

Member of Denver Botanic Gardens? ☐ Yes ☐ No

Member ID _____
(on top line of newsletter address label)

Address _____

City _____ ZIP code _____

Daytime Phone _____ Evening Phone _____

Cash ☐ Check ☐ VISA ☐ MC ☐

_____ Exp. _____

Signature _____

7

Registration

Class fees must be paid in advance by credit card, check or money order made out to Denver Botanic Gardens. Phone registration will be accepted for credit card payment only. Space in many classes is limited. You will be enrolled in class the day your payment is received. All classes are subject to a minimum of ten students. For further information, please call 370-8020.

MAR

Plant
Societies at
DBG

Many plant and horticultural societies meet regularly at DBG. For their meeting times, or to contact a representative of any group in which you are interested, call Denver Botanic Gardens during business hours: 331-4000.

Coming Up

Classes are in italics. Asterisk* indicates the first meeting of a class with more than one session.

March

- 5 **A Palette of Annuals*
- 9 **Basics of Organic Gardening*
- 10 *Spring Main Dishes with Herbs*
- 16 "Romancing the Alpines II"
- 17 *Classic Tuscan Antipasti*
- 19 *Propagation of Tropical Waterlilies*
- 23 *Winter Botany*
Spring African Violet Show and Sale
- 24 Spring African Violet Show and Sale
- 27 *ABC's of Pruning*
- 30 Cactus and Succulent Show and Sale
- 31 Cactus and Succulent Show and Sale

April

- 4 **Beginning Bonsai*
**Botany for Beginners*
How to Train Your Grapevine
**Vegetable Gardening for Results*
- 6 Orchid Auction and Mini-Show
- 7 *Explore Chatfield Arboretum*
- 9 **Xeriscape for the Urban Gardener*
- 10 **Cacti & Succulents for Beginners*
Aquatic Gardener: Basic Pool Construction
- 16 Members' Annual Dinner
- 20 Chatfield Arboretum Arbor Day Celebration



Botanical tulips, tiny narcissus and crocus will brighten your next spring visit to the Gardens.



SCIENTIFIC
& CULTURAL
FACILITIES
DISTRICT

Denver Botanic Gardens is grateful for funds from the Scientific and Cultural Facilities District (SCFD), which enable the Gardens to better maintain its facilities, expand services and enhance the quality of programs and exhibits.

Denver Botanic Gardens, Inc.

909 York Street
Denver, Colorado 80206
303-331-4000

Address correction requested

TIME VALUE

March 1991



Non Profit Org.
U.S. Postage
PAID
Permit No. 205
Denver, CO

'Flowering of Denver' Plant & Used Book Sale Schedule May 9, 10 & 11

Thursday

Pre-Sale Party

Admission: \$42

5 to 8 p.m.

Friday

Plant & Used Book Sale

Admission: Free

Members only: 8:30 to 9:30 a.m.

General public: 9:30 a.m. to 5 p.m.

Saturday

Plant & Used Book Sale

Admission: Free

Members only: 8:30 to 9:30 a.m.

General public: 9:30 a.m. to 5 p.m.

Green Thumb



NEWS

**Denver Botanic Gardens
April 1991
Number 91-4**

'Flowering of Denver' May 9, 10 & 11

You Can Shop Early!

There are two ways you can be among the first to choose from the thousands of plants offered at the 42nd Annual Plant & Used Book Sale. The Pre-Sale party (which features plants only—no books) will be Thursday, May 9, from 5 to 8 p.m. Tickets are \$40 per person and entitle shoppers to a light buffet dinner, entertainment and best selection of plants ever—in a relaxed and festive environment.

Then, on Friday and Saturday between 8:30 a.m. and 9:30 a.m. *members only* may enter the Gardens to shop. During this time entry will be limited to the south gate behind Botanic Gardens House at 909 York Street. *You must show your membership card for early admission.* Memberships may be purchased both mornings at the south gate entrance. hours for the general public will be from 9:30 a.m. to 5 p.m. on Friday and Saturday. Admission is free.

The many divisions of the sale are located throughout the grounds. The Education Building and John C. Mitchell II Hall will house indoor plants, used books and an expanded gift shop. Once inside the gate, grab a shopping cart and a map and you'll be on your way to selecting the best plants in Denver. Please recycle your own boxes to carry all of your treasures home.

New Features

New this year in each division is the designation of "tried and true" plants. These are plants selected as excellent choices for the novice or new-to-

Colorado gardener. Staffing each plant division will be knowledgeable gardeners who can help with other plant selections.

A new division titled "Earth Focus '91" will feature demonstrations, lectures and displays of an environmental nature. Learn how to compost, plant an edible landscape, use drought-tolerant plants and more. A schedule of Earth Focus '91 events will be printed in the May issue of the Green Thumb News.

Library Needs Used Books

The used book division of the 1991 Plant and Used Book Sale needs donations of used books on all subjects.

Revenue from the sale of used books is the primary source of funds for the purchase of new books for the Helen Fowler Library's collection of horticultural and botanical books.

You can help. If you have books to donate bring them to the Gardens' Helen Fowler Library Mondays through Saturdays from 10 a.m. to 4 p.m. (If you bring them before May 6 they can be sold this year, avoiding a year's storage until the 1992 sale). For more information, please call 370-8014.

Home Grown Donations Needed

Green-thumbed gardeners who find their yards bursting with plants that need to be divided or thinned will be happy to know that plant donations for

the 1991 sale are eagerly welcomed! Potted divisions and seedlings may be left just inside the Gaylord Street service entrance beginning Monday, May 6, or brought to the garden donations division on the days of the sale. Please label all plants with as much information as possible (common name, botanical name, variety, color, height, etc.).

Volunteers are needed to come to the Gardens on Tuesday and Thursday mornings beginning April 2 to help divide and pot the plants for sale in the garden donations division. Please call Marilyn Moore, 388-6934, or Anne Bobal, 751-9078, for more information.

Volunteer Fair for Plant Sale Workers

Jump into spring gardening by volunteering. Help is needed in the used book division, customer services, cashiers and plant divisions. Please sign up and plan to attend a Volunteer Fair which will be held on Saturday, April 13, from 9 to 11 a.m. in John C. Mitchell II Hall.

Andrew Pierce, senior horticulture advisor, will give a slide presentation on the history of DBG and the evolution of the plant sale. He will also highlight some of the special plants available at this year's sale.

The only qualifications to volunteer for the sale are a love for plants and plenty of enthusiasm. Just fill out the "Volunteer Sign-Up" form at the bottom of this page and return it to the Gardens. If you need more information, please contact Jane Davis, 756-9566, or Karen Landsdowne, 762-9186.

Inside:

*Emerson
Birchfield on
Gardening
Trends*
page 2

*Orchid
auction*
page 3

*Smithsonian
programs*
page 3

*Rose
symposium*
page 3

*Springtime
classes*
pages 4-7

Coming up
page 8

Emerson R. Birchfield on Gardening Trends: They Start with "The Flowering of Denver"

As "The Flowering of Denver," the 42nd Annual Plant and Used Book Sale, approaches gardeners anticipate discovering new treasures. The dates May 10 and 11 are already circled in red on your calendar. It's our day in the sun—whatever the weather may actually bring.

It is amazing how Colorado has become a trendsetter in American horticulture. We have known all along that many talented gardeners flourish here, but now barely a month goes by without a national magazine touting one of our own. How did we become such a hotbed of horticultural activity? Curiosity. It may kill cats, but it enlivens gardens. I have yet to meet a fine gardener who didn't have an innate sense of curiosity and discovery.

The division chairmen of "The Flowering of Denver" are as curious as they come—and I mean no disrespect. Without their quests for the new and unusual, our gardens would surely be the poorer. It was not all that long ago, for example, that the hardy ice plants, *Delosperma* spp., and Turkish veronica, *Veronica liwanensis*, were first offered at the sale, propagated from our world-famous Rock Alpine Garden. These are now hot plants on the national scene—the equivalent of horticultural hula hoops. So it would be wise to examine the new offerings this year to spot the hot plants of the '90s.

Gesa Robeson tells me that the plants to watch for in the Rock/Alpine division are *Campanula ephesia*, which forms a silvery "wedding cake" rosette topped by a mound of Canterbury bells in June and July, and *Delphinium grandiflorum*, whose cobalt blue flowers will grace your rock garden or traditional border throughout the summer. *Aeniopsis cabulica* comes from Afghanistan, perhaps where its name is easier to pronounce. The name

should not deter enjoyment of this gorgeous "statice with status"; its broad leaves are wildly variegated with silver and white. We might as well learn to pronounce *Leuzea conifera*, for this all-summer-long-blooming Spanish import—new to cultivation—is bound to become a classic.

Marcia Tatroe has undertaken the task of creating an entirely new Xeriscape division. Area gardeners were among the first to champion water-wise gardening, so it is no surprise that much of the country looks here for ideas. Marcia recommends *Amsonia jonesii*, with sapphire blue clusters of flowers that sparkle in the DBG Xeriscape Garden in May, and *Chamaebateria millefolium*, which, thank goodness, goes by the common name fernbush. This aromatic shrub grows to five feet and is cloaked with finely-divided leaves and white panicles of flowers in summer.

The Xeriscape division will also feature *Agastache cana*, a dandy long-lived perennial that attracts hummingbirds to its showy pink flowers. Jim Knopf calls it "double bubble mint"—an allusion to its bubble gum aroma. Can national stardom be far behind? Two worthy old plants also seem poised for newfound celebrity—*Ipomopsis rubra* and *Helianthus maximiliana*. Biennial *I. rubra* was a cottage garden favorite called standing cypress or skyrocket, for the stems shoot up to five feet and bear hundreds of brilliant red tubular flowers. *H. maximiliani* is sometimes called the Santa Fe sunflower, and its show-stopping display of brilliant yellow flowers on eight foot stems is recommended for most any sunny spot except, perhaps, a tiny rock garden.

The drought-tolerant theme extends onto the Gardens Donations division, which features perennials and groundcovers donated by generous home gardeners, as well as dug from beds and borders at DBG. Many choices are dug by chairman Marilyn Moore and her crew from the Xeriscape berm, including colorful *Galliardia pinnatifida*, charming yellow *Aquilegia caryanthea*, and low-growing varieties of rabbitbrush, *Crysothamnus nauseosus*. Gardeners looking for a tough, hardy plant to cover a large expanse or bank will be delighted to

find *Rosa nitida* 'The Defender.' Its hot pink flowers are followed by impressive orange hips and magnificent gold and orange autumn foliage. *St-John's-wort*, *Hypericum calycinum*, is an ancient plant with a promising future as a groundcover. It performs admirably in semi-shade, where its sunburst yellow flowers shine from late spring to fall.

The incredible success of the Herb division, of late, is no doubt due to a larger trend towards healthier diets and creative cuisine, not to mention the dedicated volunteers headed this year by Sara Moore. She tells me that scented geraniums, *Pelargonium* spp., continue to delight shoppers. Useful as container plants for the patio and windowsill, some of them make excellent candidates for trimming into topiary standards, especially the lemon-scented *P. crispum*.

Garlic chives is a new addition to her division. It imparts a mild garlic flavor in cooking. Italian and Greek oreganos are the most flavorful of their kind, Sara reports, while a dwarf form of sage is milder than its familiar garden cuisine. Cooks will have to fight over a limited number of pots of bay, the essential herb in French cuisine. The rest of us will merely have to fight to curb our impulses to buy everything that piques our curiosity—but why resist? As trendsetters, we have an obligation to the rest of the nation.

(Emerson R. Birchfield is our special correspondent for "The Flowering of Denver." The major trend in is garden, he reports, is utter chaos.)

Tributes

In memory of Mrs. Thomas (Oma) Best
Crestmoor Park Garden Club

In memory of Alice Gulesian
James & Phyllis Carleton

In memory of Caryl Heuston
Pat & Kathy Ireland
Chris & Laura Krampert
Curt Krampert
Jean Krampert

In memory of Elinor Epping Kingery
Ms. Syd Glick

In memory of William H. Lucking
Ms. Syd Glick
Mr. & Mrs. J. V. Petersen
Dr. & Mrs. Moras Shubert
Mr. & Mrs. Fred Vetting

In memory of Irma C. Morris
Dr. & Mrs. Moras Shubert

In memory of Dr. E. F. Pfile
The Hay Family

Green Thumb News Number 91—4 April 1991

Published monthly by Denver Botanic Gardens, 909 York Street, Denver, Colorado 80206-3799, and edited by Larry Latta. Subscription to this newsletter is a benefit of membership in Denver Botanic Gardens. For information please write the membership department at the above address or call 370-8029.

April 20 is the deadline for the June 1991 newsletter.



Accredited by the
American Association
of Museums

Annual Meeting & Dinner

The annual dinner, open only to members of Denver Botanic gardens, will be Tuesday, April 16, in John C. Mitchell II Hall. Geoffrey Rausch, this year’s Guest Speaker, is presenting “Master Plan 2000: A Window on the Future.”

Reservations must be received by Denver Botanic Gardens membership department by April 9. Your reservation form appeared as an insert in the March issue of the Green Thumb News. If you have any questions or need additional information, please contact Syd Glick, membership secretary, 370-8029.

The Smithsonian Comes to Denver!

Distinguished staff members of the Smithsonian Institution will visit Denver this spring to share their expertise through a special week-long program of lectures and workshops. This series scheduled for April 22-28 is part of a nationwide effort to make the resource of the U.S. national museum available to citizens throughout the country.

As a member of Denver Botanic Gardens you should be especially interested in the April 23 lecture at the Gardens “The Fate of the Tropical Rainforest.” In it, Michael Robinson of the National Zoological Park will offer his unique look at dwindling tropical life and will discuss steps to preserve biological diversity.

A descriptive brochure and ticket order form will be mailed to you soon. Please note that registrations are to be sent directly to the Smithsonian.

Become A Tour Guide for the Gardens

Summer is an exciting time at Denver Botanic Gardens. School groups, youth groups, garden clubs, gardeners, artists and photographers can be seen everywhere enjoying the wonders of the Gardens.

You are invited to take part by becoming a tour guide for the Gardens. Tours will be provided on weekdays, weekends and occasional evenings throughout the summer.

The first class meets in classroom B on Wednesday, May 15. The summer tour program runs until the end of September.

Everyone in the 12-week class will receive a notebook of valuable information on the gardens, its history and the outside collections. Among the interesting gardens within our 22 acres are the rock alpine garden, xeriscape, plains, rose, and herb gardens, the Wingsong garden and aquatic plant displays, the perennial garden and the Japanese garden. As a new tour guide you will receive instruction on how to provide interesting, educational tours for our visitors.

If you have a few hours to spare each month during the summer, why not help out at the Gardens? You need not be a plant expert, just a person who understands gardening, enjoys nature and can share your enthusiasm with others.

To apply, complete the education department registration form in this newsletter. There is a registration fee of \$25 to cover materials. If you wish additional information about the volunteer guiding program, call the education department at 370-8020.

Rose Symposium

The Denver Rose Society will hold its 20th annual symposium Sunday, April 7, from 1 to 4:30 p.m. in Denver Botanic Gardens’ John C. Mitchell II Hall.

Workshop topics:
“Buying and Planting Roses,”
Joan Franson, 1:15 to 1:45 p.m.
“Fertilizer,”
Royal Franklin, 1:45 to 2:00 p.m.
“Water, Pests and Diseases of Roses,”
Geraldine Boller, 2:15 to 2:45 p.m.
“Pruning Roses,”
Eddie Wright, 2:45 to 3:05 p.m.
Master Gardener Questions,
Joan Truby, 3:20 to 3:40 p.m.
“What the Rose Society Is and What It Can Do for You,”
Carolyn Fylling, 3:40 to 3:50 p.m.
Questions and answer session,
3:50 to 4:10 p.m.

Orchid Overtures: Mini-Show & Auction

On Saturday, April 6, The Denver Orchid Society will host a mini-show and auction, “Orchid Overtures.” The auction starts at 1 p.m. and features many orchids in bloom. All events are in the John C. Mitchell II Hall.

Free Day April 6

April 6 is the second free day of the eight scheduled at the Gardens in 1991 for Colorado residents. Free days are arranged in cooperation with the City and County of Denver and the Scientific & Cultural Facilities District.

1991 “Flowering of Denver” Plant and Used Book Sale Volunteer Signup

Yes _____, I would like to help as a NEW volunteer at “The Flowering of Denver” on May 9, 10 or 11, or _____ I would like to apply to be an Assistant Division Chairman.

Name _____

Address _____

City _____ State _____ ZIP code _____

Phone: Evening _____ Daytime _____

Special Skills _____

How to Train Your Grapevine

Saturday, April 6
(Rain date April 13)
Noon to 2 p.m.
Classroom B

How do you prune grapevines? Can you train an old vine? What is a "bull cane"? Can you prune your vines in their first year? In this hands-on workshop, you will learn all the techniques of training grapevines. Each student will have an opportunity to practice on vines in the DBG Herb Garden.

Participants should bring sharp pruning shears, gloves and warm clothing.

Instructor: Moras L. Shubert

Fee: \$16 members/ \$18 nonmembers

Limit: 12

Vegetable Gardening for Results

(four sessions)

Saturdays, April 6, 13, 20 & 27

1 to 4 p.m. Morrison Center

This series of vegetable gardening classes will introduce you to organic methods.

Register for all or for individual classes.

Soil Preparation: April 6

Enriching soil is a critical part of any gardening program. Learn about compost — how to make it and use it — organic methods of fertilizing and double-digging techniques of bed construction.

Cole Crops, Lettuce and Other Greens: April 13

Broccoli, cabbage, cauliflower, bok choy and Chinese cabbage are healthy, easily grown vegetables especially suited for cool spring and fall growing conditions. Learn how to grow an assortment of salad greens and how to do succession planting, intercropping and fertilizing.

The Tomato and its Relatives: April 20

Tomatoes, peppers and eggplants are all members of the deadly nightshade family. Learn superior varieties for your needs and how to maximize yield. Seed sources for unusual varieties will be provided.

Beyond the May Planting Frenzy: April 27

This session will focus on appropriate crops for the late-summer-to-fall garden. Many plants respond well to

shorter daylight hours and cooler temperatures.

Instructor: Judy Elliott is an enthusiastic teacher with 15 years of organic gardening experience. She is a master gardener who assists "Dr. Green" at Denver Botanic Gardens.

Fee: \$12 members/\$14 nonmembers for single sessions. Entire series is \$40 members/\$48 nonmembers.

Botany for Beginners

(four sessions)

Thursdays, April 4, 11, 18 & 25
6 to 8 p.m.

Classroom C

This course will provide a brief but thorough scientific introduction to plants: their structure, how they grow, basic physiology, how to give them what they need and something about plant ecology.

Living plant materials and microscope slides will be used, as well as an illustrated syllabus to serve as visual and hands-on aids.

Instructors: Moras L. Shubert, Ph.D., is professor emeritus of botany at the University of Denver. Paula Ogilvie is the director of the DU biology lab. Both have extensive teaching experience.

Fee: \$32 members/ \$38 nonmembers

Limit: 30

Behind the Scenes Greenhouse Tours

Section I: Saturday, April 20
1 to 2 p.m.

Section II: Sunday, April 28
1 to 2 p.m.

(Please indicate your section on the registration form.)

Ever wonder what goes on behind the beautiful displays at DBG? Now is your chance to view propagation facilities, the service greenhouses and the orchid and bromeliad house — behind-the-scenes collections seldom accessible to the public.

Meet: Main Lobby

Tour Leaders: DBG greenhouse staff

Fee: \$2

Limit: 15

Rocky Mountain Arsenal Field Trip

Sunday, April 21
1 to 3:30 p.m.

West Gate,
Rocky Mountain Arsenal

Learn about the history of Rocky Mountain Arsenal and the current plans for cleaning-up the contamination from past production and storage of weapons and chemicals. See how

this 27-mile island in a sea of civilization is coming back to life with bald and golden eagles guarding its skies. You can expect to see hawks, coyotes, mule deer and white-tailed deer.

Meet: Shortly after 1 p.m. at the west gate, 72nd Avenue and Quebec Street, in Commerce City. A bus will meet you there and take you into the arsenal. No private cars are allowed on the grounds.

Instructor: A park ranger or wildlife biologist from the U.S. Fish and Wildlife Service will lead this tour.

Fee: No charge, but advance reservation is required. Call 370-8020 between 8 a.m. and 5 p.m., or use the registration form.

Limit: 70

Ornamental Grasses

Monday, April 22

6 to 8 p.m.

Classroom C

The graceful beauty of ornamental grasses is sweeping through the landscaping imaginations of the country. Slides and a tour (depending upon the weather) familiarize you with the best varieties, cultural requirements and plant sources. Particular attention will be given to the many varieties displayed at Denver Botanic Gardens.

Instructor: Staff member Joseph V. Tomocik has cared for the ornamental grasses at the Gardens and has effectively used them in annual displays.

Fee: \$8 members/ \$10 nonmembers

Limit: 20

Bromeliad Workshop

Saturday, April 27

9:30 to 11:30 a.m.

Classroom C

This lecture and demonstration will give you the basic care of epiphytic, or tree-dwelling bromeliads, as well as the terrestrials grown in pots. In a hands-on session you will have the opportunity to mount a small bromeliad on cork bark to take home. All materials are provided.

Instructor: DBG greenhouse supervisor, Gary Davis, has many years experience with bromeliads and orchids.

Fee: \$12 members/ \$15 nonmembers (includes \$4 for materials)

Limit: 15

Watercolor Painting

(five sessions)

Wednesdays, April 3, 10, 17, 24 & May 1

Section I: 9:30 a.m. to 12:30 p.m.

Section II: 6:30 to 9:30 p.m.

Classroom B

The Board of Trustees of Denver Botanic Gardens invites you to



'The Flowering of Denver'

*Pre-Sale Party for the 42nd Annual
Plant & Used Book Sale*

Thursday, May 9, 1991

5:00 – 8:00 p.m.

at Denver Botanic Gardens

Entertainment & Enticements

Drawings for Door Prizes

Poster Signing by Gayle Crites

(Used Books Not Available)

Cash Bar • Casual Dress • \$42 Per Person (\$25 tax-deductible donation)

☐ *Enclosed is my check for \$_____ for _____ reservations.*

☐ *I cannot attend, but enclosed is my tax-deductible contribution of \$_____*

Name(s) _____

Address _____

City _____ *State* _____ *Zip* _____

Telephone _____

Mail to: Mrs. Stephen Waters • 7 Crestmoor Drive • Denver, CO 80220

Reservations a must! • Reservation deadline – May 3, 1991 • Please make checks payable to Denver Botanic Gardens

(Please indicate your section on the registration form)

Explore the sparkle and delicacy of watercolor painting while you enjoy the natural setting of Denver Botanic Gardens. This course will cover the basic materials and techniques of watercolors, with emphasis on freedom of personal expression.

Come prepared with supplies: a one-inch flat brush, #10 round brush, watercolor paper, tissues, container for water, plastic palette and cake or tube watercolors.

Instructor: Boris Shoshenky teaches drawing, watercolor and oil painting at Rocky Mountain College of Art and Design.

Fee: \$60 members/ \$72 nonmembers

Limit: 15

Explore Chatfield Arboretum: A History

Section I: Sunday, April 7
1 to 3 p.m.

Section II: Saturday, April 27
10 a.m. to noon

Visitor Center
Chatfield Arboretum

(Please indicate your section on the registration form)

Become acquainted with the history of Chatfield Arboretum. In an 1870s one-room schoolhouse you will learn much about the past 130 years in the South Platte Valley. Visit Hildebrand Farm, an 1860s farm that is on the National Register of Historic Places.

This behind-the-scenes tour will take you to outbuildings, so be prepared for the weather of the day.

Leader: Jim Trammell

Fee: \$4 members/\$5 nonmembers

Limit: 12

Xeriscape for the Urban Gardener

(four sessions)

Tuesdays, April 9, 16, 23 & 30
7 to 9 p.m.

Morrison Center

This course will cover basic horticulture and design principles to help you create a landscape that is functional, easy to maintain, water-efficient and beautiful. Slide shows, in-class exercises and discussions will teach you about xeriscape and the seven concepts that make it appropriate for our semi-arid environment.

Topics are design and renovation, plants for Colorado, landscape maintenance and “xerigation.” Handouts will be provided. *Landscaping for Water Conservation: Xeriscape!* will be available in class for \$3.

Bring pencils and a plan of your property showing the layout of your home, existing plantings and other permanent features.

Instructor: Anna Thurston, water conservation specialist for the City of Aurora, has owned a landscape design business.

Fee: \$32 members/ \$38 nonmembers

Limit: 30

The Aquatic Garden: Basic Pool Construction

Wednesday, April 10
7 to 9 p.m. Classroom C

Backyard gardeners and do-it-yourself enthusiasts will learn how to install pools from start to finish. Site selection and design considerations, as well as how to use membrane liners, will be discussed. Although emphasis will be placed on PVC and Hypalon, the pros and cons of concrete and urea resin will be highlighted.

Instructor: An experienced aquatic gardening teacher, John B. Mirgon is a board member of the International Water Lily Society and former president of the Colorado Water Garden Society.

Fee: \$8 members/\$10 nonmembers

Cacti and Other Succulents for Beginners

Section I : Wednesday, April 10
Section II: Wednesday, May 15
7 to 9 p.m.
Morrison Center

(Please indicate your section on the registration form.)

Discover the basics of successfully growing succulent plants (including cacti) on your windowsill, in the basement and on the patio. All aspects of cultivation such as light, temperature, water, fertilizer, soil, pots, propagation and pests will be discussed. You'll even learn the benefits of treating your indoor plants to a summer outing in the backyard.

Each student will take home a potted plant compliments of the Colorado Cactus and Succulent Society.

Instructor: Don Campbell is an avid hobbyist who has filled every conceivable nook and cranny in his house with these plants. He's also an active member of the Colorado Cactus and Succulent Society.

Fee: \$8 members/ \$10 nonmembers

Limit: 20

Instructor: Vickey Trammel is a popular instructor at Arapahoe Community College, Roxborough State Park, Chatfield Arboretum, the Rocky Mountain Nature Association,

and the Colorado Division of Wildlife.

Fee: \$20 members/ \$24 nonmembers (includes \$4 for materials)

Limit: 12

Potpourri

Saturday, April 13
9 a.m. to noon
Polly Steele Nature Center
Chatfield Arboretum

Do you stop to smell roses in the summer and wish they were still around to sniff in the winter? Learn how to select and when and where to collect flowers, plants and roots for preserved mixtures. We will discuss the ingredients of both dried and simmering potpourri, as well as collection and preparation techniques.

Instructor: Jean Hortman has been preparing potpourri for several years.

Fee: \$12 members/\$15 nonmembers

Limit: 12

Italian Cooking with Judith Fine-Sarchielli

(Please bring a small chef's knife, paring knife, apron and a cutting board if you wish to participate in the hands-on part of these classes.)

The cuisine of Tuscany, a mountainous region in northern Italy, is distinguished by its frugality and elegant simplicity. Because typical dishes rely heavily on seasonal, fresh produce and a deft hand with herbs, these classes are well suited to the gardener who cooks.

Instructor: An accomplished chef, caterer, food consultant, teacher and designer, Judith Fine-Sarchielli lived in Italy for 15 years.

Fee for each class: \$16.50 members/ \$20 nonmembers (includes \$4.50 for materials)

Limit for each class: 12

Classic Tuscan First Courses

Saturday, April 13
9:30 a.m. to noon
Kitchen, next to DBG Library

Especially in Tuscany, first courses gently introduce the palate to the dining experience that follows. These dishes can also be enjoyed as lighter warm-weather entrees. Artichoke omelette, polenta gnocchi with parmesan sage sauce and ricotta gnocchi with fresh herb vinaigrette are all guaranteed to please.

Class locations:

Classrooms A, B and C are at 1005 York Street, Denver.

The DBG Morrison Horticultural Demonstration Center is at 2320 East 11th Avenue, Denver.

Chatfield Arboretum is at 9201 South Carr Street, Littleton (southwest of Wadsworth Boulevard and C-470).

Water Gardening for Colorado

(two sessions)

Wednesdays, April 17 & 24

7 to 9 p.m.

Classroom C

Know that your first adventure into water gardening will be a colorful success. Learn the appropriate plants for Colorado's climate and techniques for cultivation and display.

A slide presentation will illustrate water lilies, water lotuses and bog plants. "Putting it all together" will be emphasized in a tour of DBG's greenhouses. Plant sources will be given.

Instructor: Joseph V. Tomocik, horticulturist of the DBG water gardens since 1982, has lectured at DBG, Longwood Gardens and Missouri Botanical Garden.

Fee: \$16 members/\$19 nonmembers

Selection and Maintenance of Spring Bedding Plants

Saturday, May 4

9:30 to 11:30 a.m.

Morrison Center

Learn the criteria for selecting and maintaining healthy plants, including the age of the transplant, the hardening-off process, soil enrichment, transplanting techniques and the varieties adapted to sun or shade.

Instructor: Judy Elliott

Fee: \$8 members/\$10 nonmembers

The Case of the African Violet

Sunday, May 5

1 to 3:30 p.m.

Classroom B

Learn the basics of African violet care: lighting, feeding, watering, temperature control, cleaning, soils, pests and propagation.

You may bring a couple of your pest-free African violets to this class and learn why they won't grow—or why they have grown so tall. Learn the art of leaf propagation and how to separate "babies."

Bring a clean, sharp knife. The instructor will provide cuttings.

Instructor: Debbie Griffith has been growing African violets for 13 years and is currently president of the Rocky Mountain African Violet Council and a show judge.

Fee: \$13 members/\$16 nonmembers (includes \$3 for materials)

Limit: 20

Planning Your Home Landscape — Do It Yourself

(three sessions)

Saturdays, May 11, 18 & 25

9 a.m. to noon

Visitor Center

Chatfield Arboretum

This class will help homeowners plan landscapes for new or existing homes. During the first session you will survey basic design principles and processes for developing and building a landscape that suits your needs.

Topics to be covered are site analysis, circulation planning, microclimates, grading and drainage, paving and patios, and irrigation systems. Home landscape plants to be discussed are trees, shrubs, ground covers, lawns, native grasses and flowers.

Instructor: Thomas L. Stephens is a landscape architect with more than 25 years' experience. He has taught home landscape design for 19 years and is currently co-authoring a book, *Xeriscape: Common Sense Landscaping*.

Fee: \$50 members/ \$60 nonmembers (includes \$14 for materials).

Limit: 12

Wildflowers of the Plains Field Trip

Sunday, May 12

10 a.m. to 3 p.m.

This spring field trip to the edge of the prairie at Plainview is an opportunity to observe the spring flora of this area in its full glory. See the Rocky Mountain iris, orange arnica, western wallflower, blue-mist penstemon, Easter daisy, spring beauty, pasque flower and many others.

Bring your lunch and drinking water. If you have wildflower guides and a hand lens, they will be useful.

Meet: promptly at 10 a.m. at the junction of Highways 93 and 72 between Boulder and Golden in the parking lot at the southeast corner of the intersection.

Instructor: Paul Kilburn, Ph. D., has taught botany and ecology in Colorado for many years.

Fee: \$5 members/\$5.50 nonmembers

Limit: 20

Japanese Tea Ceremony

Section I: Sunday, May 12

Section II: Saturday, May 25

Section III: Sunday, June 16

Section IV: Saturday, June 22

Section V: Saturday, July 20

**Section VI: Sunday, July 28
2 to 3 p.m.**

Japanese Garden Tea House

(Please indicate your section on the registration form)

Because it is based on harmony, respect, purity, tranquility and elegant simplicity, the tea ceremony has for centuries been considered the epitome of Japanese life. This is an opportunity to experience an authentic tea ceremony in the quiet beauty of our Japanese garden.

Instructor: Kathryn Kawakami has done much to inform Denver-area residents and students about the culture of Japan.

Fee: \$4.50 members/\$5 nonmembers

Limit: 15

Beginning Bird Watching

(two sessions)

Mondays, May 13 & 20

9 a.m. to noon

Visitor Center

Chatfield Arboretum

Learn to recognize birds by their calls, flight patterns and markings. After a short classroom introduction, you will comb the Arboretum for new spring bird residents. Please come dressed for the weather conditions of the day.

During the first session, binoculars and field guides will be discussed. If you already have binoculars and field guides bring them along, but do not buy any for the class until you learn some tips about the best and the worst.

The second session involves a short field trip to a favorite birding place nearby. Carpooling and additional entrance fees should be expected for this trip.

Instructor: Ann Bonnell is a member of the Tuesday Birders, The Denver Audubon Society and the Denver Field Ornithologists.

Fee: \$24 members/ \$29 nonmembers

Limit: 12

Orchids for Beginners

(two sessions)

Saturdays, May 18 and 25

9:30 a.m. to noon

Classroom A

Orchids are highly specialized members of the plant kingdom and, although many are tropical, can be grown successfully indoors in Denver.

Learn the basic biology of orchids: their natural history, unique physiology and ecology. You will also receive a thorough overview of selections for your home or greenhouse and learn how to mix the soil, grow orchids under lights and solve the problems that arise in our arid climate.

Instructors: Paula Ogilvie, former

president of Denver Orchid Society, teaches biology and plant physiology at the University of Denver. Marion Allen is the current president of the Denver Orchid Society.

Fee: \$20 members/\$24 nonmembers
Limit: 15

Identification of Spring Wildflowers

Saturday, May 18
9 a.m. to 2 p.m.
Polly Steele Nature Center
Chatfield Arboretum

Do you get lost using a taxonomic key? This class will cover flower structure, family characteristics and the use of a simple teaching key. Come prepared for some indoor and outdoor activities. Bring a sack lunch, wear good hiking shoes and dress for the weather.

Instructor: Vickey Trammell is a popular instructor at Arapahoe Community College, Roxborough State Park and Chatfield Arboretum.

Fee: \$20 members/\$24 nonmembers
Limit: 12

Natural Style Flower Arranging for Spring

Tuesday, May 21
10 a.m. to 2 p.m.
Morrison Center

Create a special floral arrangement that reflects the delicate yet lively flowers of spring. You are encouraged to bring personal materials to add more interest and variety to your work.

Please bring your own containers and flower snips as well as a container (a small bucket is perfect) for holding water and flowers when cutting materials at the Gardens. A piece of floral foam or a needle-point flower holder and wire cutters or pruning shears will also be useful. Some flowers will be cut from the Gardens, others will be purchased and provided for you. Please bring a lunch to class.

Instructor: An experienced floral designer and teacher, Julia Dobbins has studied floral arranging extensively in the United States and England.

Fee: \$31 members/\$35 nonmembers (includes \$15 for flowers)
Limit: 12

Beginning Wildflower Identification

Saturday, May 25
9:30 to 11:30 a.m.
Kathryn Kalmbach
Herbarium
Denver Botanic Gardens

Learn how to use a key to identify your favorite wildflowers. This introductory class will enhance your sum-

mer hikes. Bring to class any wildflower guides you might have for this region and a hand lens if you have one.

Instructor: Dr. Helen Zeiner taught botany at the University of Denver and is the honorary curator of the Kathryn Kalmbach Herbarium at the Gardens.

Fee: \$8 members/ \$10 nonmembers
Limit: 16

Ecology and Flora of North Table Mountain Field Trip

Saturday, May 25
10 a.m. to 3 p.m.

You will examine the native biology as well as man's use of this lava-capped mountain rising 1,000 feet above the plains.

You will explore a wide variety of grassland and shrub communities, geology and wildlife of this natural history gem: stands of mountain mahogany, snowberry, skunkbush, chokecherry, mountain maple, lichens and the abundant spring flowers of the foothills.

Bring your lunch and drinking water. If you have wildflower or bird guides, bring those also.

Meet: promptly at 10 a.m., 1.8 miles north of Highway 58 (Golden) on the east side of Highway 93 at the gravel road by a small cottage.

Instructor: Paul Kilburn
Fee: \$5 members/\$5.50 nonmembers
Limit: 20

Japanese Garden Promenade

Section I: Sunday, May 26
2 to 3 p.m.
Section II: Wednesday, June 19
7 to 8 p.m.

Registration Form for Classes, Field Trips and Lectures

Enclosed is _____ to cover the registration fees for the following classes:

Name and section of class(es) _____

Name _____

Member of Denver Botanic Gardens? ☐ Yes ☐ No

Member ID _____
(on top line of newsletter address label)

Address _____

City _____ ZIP code _____

Daytime Phone _____ Evening Phone _____

Cash ☐ Check ☐ VISA ☐ MC ☐

_____ Exp. _____

Signature _____

Japanese Garden

(Please indicate your section on the registration form)

Shofu-en, the Garden of Pine Wind, is a classic Chisen-Kaiyushiki (wet garden with promenade) design. Gracing the northwest corner of the Gardens, it offers a tranquil retreat to visitors and staff. Learn more about the plants used, the construction of the tea house and the symbolism associated with almost every feature of this lovely garden.

Meet: on the bridge to the south of the Japanese garden.

Instructor: Harold Sasaki.
Fee: \$4 members/\$4.50 nonmembers
Limit: 20

Memorial Day Bike Hike and Picnic

Monday, May 27
10 a.m. to 3 p.m.

Enjoy a leisurely 10-mile trip along paved trails to Chatfield Arboretum where lunch will be served. We will stop at various points of interest to discuss plants and wildlife of the area. After lunch you can play, hike or snooze. Transportation will be provided back to the Riverfront Mall.

Meet: at the Riverfront Mall, Bowles and Santa Fe Drive, in the parking area of the closed Platinum Triangle Restaurant. Enter the lot from Bowles Avenue. Children ages 12 and up are welcome but must be accompanied by an adult.

Leader: Jim Trammell
Fee: \$10 members/\$12 nonmembers/\$4 children under 16 (includes \$4 for lunch)
Limit: 20 on bike trail, 50 paid lunch guests (Lunches available for family members who drive to the Arboretum/\$4 each.)

7

Registration
Class fees must be paid in advance by credit card, check or money order made out to Denver Botanic Gardens. Phone registration will be accepted for credit card payment only. Space in many classes is limited. You will be enrolled in class the day your payment is received. All classes are subject to a minimum of ten students. For further information, please call 370-8020.

APR

Plant Societies at DBG

Many plant and horticultural societies meet regularly at DBG. For their meeting times, or to contact a representative of any group in which you are interested, call Denver Botanic Gardens during business hours: 331-4000.

Coming Up

Classes are in italics. Asterisk* indicates the first meeting of a class with more than one session.

April

- 4 **Beginning Bonsai*
 **Botany for Beginners*
- 6 Free Day
 Orchid Auction & Mini-Show
 How to Train Your Grapevine
 **Vegetable Gardening for Results*
- 7 *Rose Symposium*
 Explore Chatfield Arboretum
- 9 **Xeriscape for the Urban Gardener*
- 10 **Cacti & Succulents for Beginners*
 Aquatic Garden: Basic Pool Construction
- 13 *Potpourri*
- 16 Members' Annual Dinner
- 19-21 Ikebana International Flower Show
- 20 Chatfield Arboretum Arbor Day Celebration
- 27 Bromeliad Workshop

May

- 9 "The Flowering of Denver"
 Preview Party
- 10&11 Plant & Used Book Sale



Ikebana International Flower Show April 20-21

Denver Botanic Gardens, Inc.
909 York Street
Denver, Colorado 80206
303-331-4000

Address correction requested

TIME VALUE

April 1991

Non Profit Org.
U.S. Postage
PAID
Permit No. 205
Denver, CO

In cooperation with
the City and County of
Denver, and with
appreciation to the
Scientific and Cultural
Facilities District.



Plant & Used Book Sale *Earth Focus '91*

Friday, May 10
Displays all day

Saturday, May 11
Displays all day

Workshops:

10 - 10:30 a.m.

Recycling Home Wastes

11 - 11:30 a.m.

Xeriscape

12 - 12:30 p.m.

Edible Landscape

1 - 1:30 p.m.

Composting

2 - 2:30 p.m.

Chemical-Free Pest Control

3 - 3:30 p.m.

*Preserving Our Plant Heritage
(Plant Diversity)*

Green Thumb

NEWS



**Denver Botanic Gardens
May 1991
Number 91-5**



'The Flowering of Denver'

Dozens of staff members and hundreds of volunteers are ready to greet you at the 42nd Annual Plant & Used Book Sale Friday and Saturday, May 10 and 11. They will do everything in their power to assist you with choosing your plants, finding your way through the crowds and discovering all the features new for this year's event.

You can beat the parking crunch around the Gardens by arriving and leaving by British double-decker bus. Both volunteers and shoppers are encouraged to take advantage of this convenience. You can park your car and catch the shuttles at Calvary Temple, located at University and Alameda Boulevards. Then leave your purchases in the special guarded holding area at 11th Avenue and Gaylord Street (north end of the Gardens) until you return with your car to pick them up. The first bus leaves the church at 7 a.m. each day and the last bus leaves the Gardens at 6:30 p.m.

Another convenience—for members only—is the special early admission each day. As a member you may enter at 8:30 a.m. at the south gate, behind Botanic Gardens House at 909 York Street. Please have your membership I.D. card ready.

The 1991 sale is, truly, better than any before—more plants, different plants and helpful, educational features such as "Earth Focus '91." (The schedule is printed above.)

Artist Gayle Crites will sign 1991 Plant and Used Book Sale posters and the posters commemorating the Gardens' 40th anniversary during the sale Friday 9:30 a.m. to 12:30 p.m. Both Crites' creations are beautiful impressionistic interpretations of summer scenes at the Gardens. Crites also is the artist of three previous years' posters, whose images have so enchanted collectors that nearly all have been quickly sold out.

For more information see page 4.

Newell Grant Elected President of DBG Board of Trustees

Mr. Newell M. Grant, a Denver Botanic Gardens trustee since 1975, was elected President of the Board of Trustees at the trustees' February meeting. He replaces Mrs. Thomas E. Taplin (Bea) who has led the Gardens for three years.

Mr. Grant has been active on a wide variety of projects and committees, including the Chatfield Arboretum, planning, nominating, development and executive committees. As chairman of the Chatfield committee he was instrumental in obtaining land and water conservation grants which helped pay for moving and refurbishing the Deer Creek School as the Arboretum's visitor center, and for the irrigation well and distribution system. He also enabled the Arboretum to acquire water rights essential to the development of the Arboretum but which were not included in the land when it was leased from the U.S. Army Corps of Engineers.

President of Grant Management Company, a real estate firm, Mr. Grant is also on the boards of the Colorado National Bank-Arapahoe and Colorado National Bank-Southwest.



Newell Grant

Inside:

Clock
page 2

*'Flowering of
Denver'
highlights*
page 4

*Old garden
roses*
page 4

*Environmental
Day*
page 5

Library Lines
pages 6 & 7

Classes
pages 8-11

Coming up
page 12

Volunteer Keeps Antique Clock Ticking

Denver Botanic Gardens holds many treasures: rare Turkish tulips, Equadorian orchids, 16th-century herbals — and a turn-of-the-century grandfather clock. In the botanic garden scheme of things, the first three may seem more relevant; but for the staff members whose hours are counted by the gentle chiming of the clock, the presence of the old timepiece is cherished. (The hours may be struck on a nest of bells or on a sonorous gong.)

The clock stands in the hallway of the Ruth Porter Waring Botanic Gardens House at the southeast corner of the Gardens' campus. The mansion houses the offices of some 20 employees in the administration, community affairs and development, education, and finance and accounting departments.

For nearly 10 years, however, the old clock stood silent, its hands locked in time; staff members and visitors who passed it in the beautifully stenciled, ornate entry-way ignored it.

As in so many instances at the Gardens in the past, a volunteer has stepped forward to take up the challenge of the clock's repair and servicing. DBG member S. E. Wheelock, an enthusiast of old timepieces, spent many hours during the past fall and winter restoring the clock to its original usefulness and charm. He cleaned and adjusted the intricate mechanism and arranged for Jerome Nagel, another DBG member, to fashion a new center finial.

Dr. Wheelock also delved into the clock's past and found an interesting relationship with a respected Denver family.

"Somewhere around the turn of the century Richard Campbell, destined to be the grandfather of long-time Denver residents Donald and Richard Campbell III, went out and bought himself a clock—a big clock, a

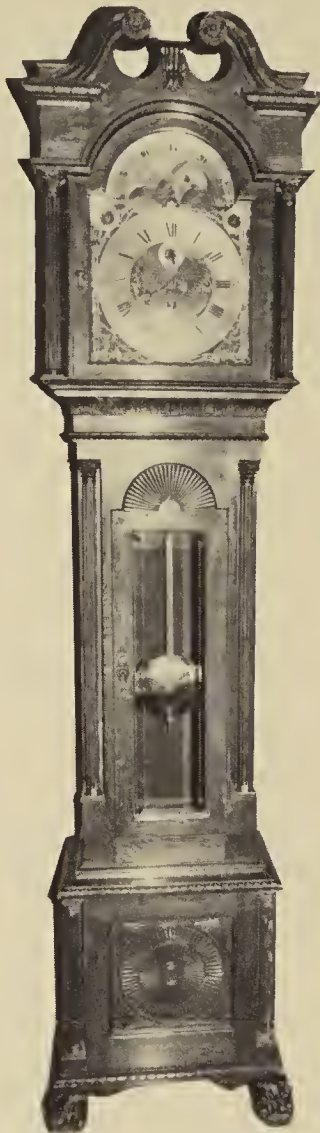
handsome clock, an expensive clock. He was motivated by a strong feeling of continuity of family, often expressed, then as now, in the form of an heirloom timepiece.

"The clock first stood in the Campbell home at 11th and Pennsylvania. When Mr. Campbell built his home at 9th and York, he installed the clock in the hall where it stands today.

"The massive carved oak case and astonishingly accurate movement were made around 1900 in Providence, Rhode Island, and represent a style of clock sold in quantity by stores the caliber of Shreve, Crump & Low in Boston, Tiffany in New York and Marshall Field in Chicago.

"A puzzling footnote is the presence on the face of a silver plate bearing the name 'George Graham,' an English clockmaker who worked in London in the 18th century.

"Don and Dick Campbell spent many happy days in that gracious house" (which later became the headquarters of DBG) "and recall somewhat hazily the solemn presence and regular striking of their grandfather's grandfather clock."



Changes Come to News: In-House Publishing

With apologies for the many errors in last month's newsletter and for the increasing inability of the postal service to deliver to some ZIP areas in a timely manner, your *Green Thumb News* staff is pleased to announce some long-planned changes designed to minimize both problems.

May marks the initial issue of the *News* published in-house—circumventing the time-consuming and error-encouraging process of sending (and re-sending with corrections, often four times per issue) copy to an outside typesetter, then turning it over to a designer for transformation into art boards for the printer.

Both type and design are now determined in the Gardens' office of Communications and Publications. This shortens the process considerably, allowing us to get the *News* to the mail house nearly two weeks earlier than before, without affecting the deadline for writing articles.

Please call the Gardens at 370-8033 if you experience any difficulty receiving your May *Green Thumb News*.

Conservatory Exterminator Named

A pretty face without a name. Tropical troopers with no IDs. The war had some unfinished business.

As reported in the January issue of this newsletter the Gardens "hired on" some amphibian and reptilian mercenaries to take care of the roaches, crickets and other predacious guerrillas in Boettcher Memorial Conservatory. Their names, however, were as hard to manage as a fond looking into their large, unblinking eyes. "*Buffo marinus*" sounds too much like a Sea World clown, but the toad by that name is very serious indeed when it comes to satisfying his appetite. And "*Ghecko ghecko*"—well, it sort of stuck in the throats of CNN reporters covering the front.

In an attempt to establish friendlier images for these warriors of the tropics, staff members were challenged with a "Name That Toad" contest. Winners were announced in March.

Thanks to the imaginative effort of DBG cashier Tom Whelan the toad and his companions are now listed in the Gardens personnel records as "B. A. Lert" and the "Little Lerts." Now, if you encounter these guys in the conservatory, you can call them by name. If you encounter Tom at the front gate, sympathy might be in order.

Runner-up names? Sorry, some things can't be revealed. "Security."

Green Thumb News Number 91–5 May 1991

Published monthly by
Denver Botanic Gardens,
909 York Street,
Denver, Colorado 80206-3799,
and edited by Larry Latta, 370-8033.

Deadline for the July issue is May 20.

Subscription to this newsletter is a benefit of membership in Denver Botanic Gardens. For information please write the membership department at the above address or call 370-8029.

Denver Botanic Gardens and Chatfield Arboretum are established and maintained by Denver Botanic Gardens, Inc., for the people of the City and County of Denver and for the general public in cooperation with the Denver Parks and Recreation Department.

Denver Botanic Gardens is also grateful for funds from the Scientific and Cultural Facilities District (SCFD), which enable the Gardens to better maintain its facilities, expand services and enhance the quality of programs and exhibits.



Tributes

In honor of **Bea Taplin**
Fay Shwayder

In memory of **Leona Floto**
E. Sydney Glick

In memory of **E. Howard Fralich, M.D.**
Dr. & Mrs. Richard B. Garnand
In memory of **William Lucking**
Dr. & Mrs. James Nelson

I have been known to jest that I employ a moving van to haul home my booty after the "Flowering of Denver." This year, at the 42nd Annual Plant and Used Book Sale on May 10 and 11, I may not be kidding. Plant sale chairman Jane Davis told me to expect some nice surprises; but, I had no idea what her magical group had up their collective sleeves.

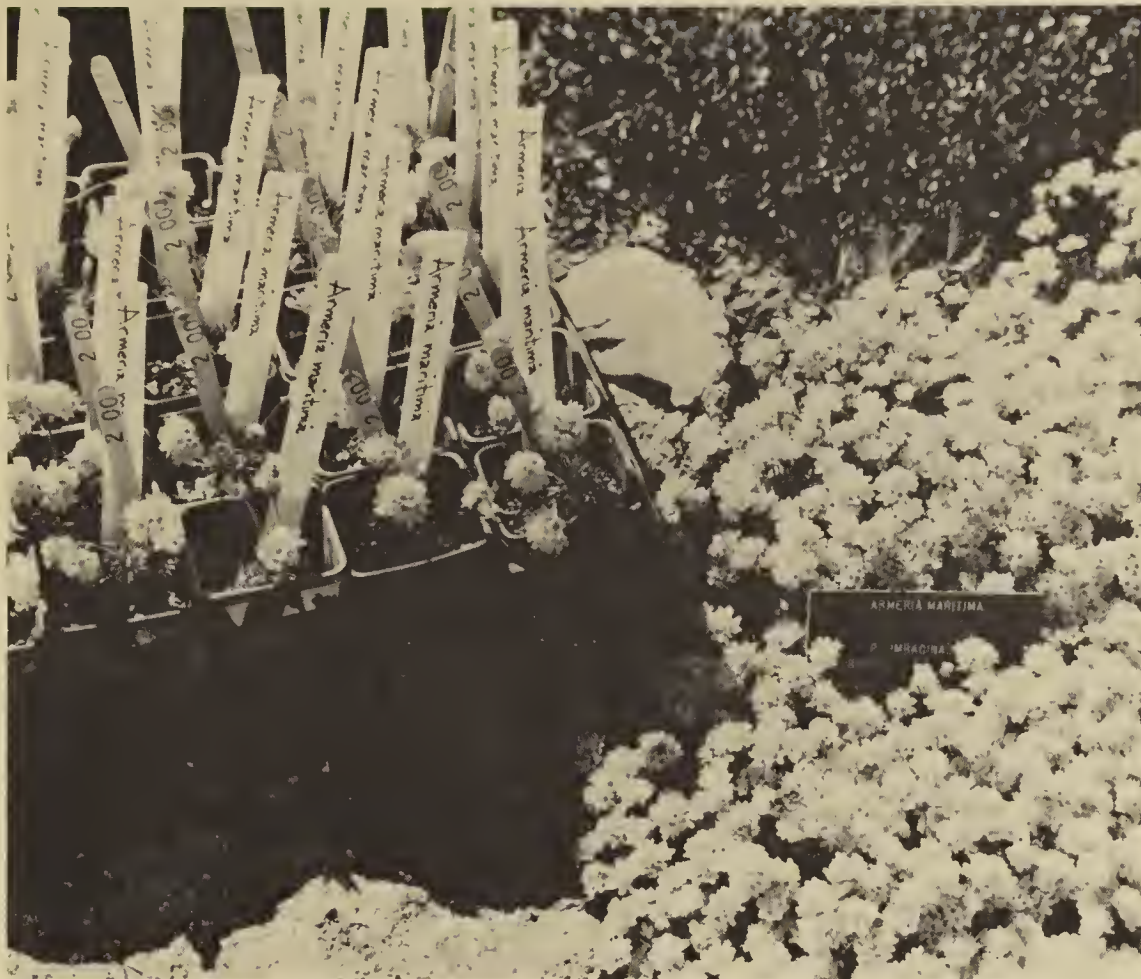
There are so many choice offerings in the tree and shrub division that one is tempted to open a personal arboretum to get the chance to grow all of them. Eva Littlefield and Carol Schutz should be congratulated for rounding up a collection of trees, shrubs and vines that are difficult to find anywhere else. Don't stop to shake their hands for too long, however—elbow your way through for *Abelophyllum distichum*, the so-called white forsythia; *Sobaria sorbifolia*, often called ash leaf spirea; and *Chionanthus virginicus*, that glorious fringetree.

Cotinus coggygria 'Royal Purple' is the smoke tree, with deep maroon leaves, that I've always longed to pair with yellow-flowering *Kerrie japonica* and the golden form of cutleaf elder, *Sambucus canadensis* 'Laciniata Aurea.' Who wouldn't treasure *Hydrangea quercifolia*, oak leaf hydrangea, or three lovely species of *Salix*, including corkscrew willow, French pussy willow and black pussy willow? I'm still trying to figure out if I can find space for *Ginkgo biloba*, ginkgo; *Aesculus parviflora*, bottlebrush buckeye; or *Oxydendron arboreum*, sourwood. This division offers seven species or varieties of *Spirea*, fourteen lilacs and nine viburnums. Dare I mention 'Moonlight' Scotch broom, 'Black Knight' caryopteris, 'Aunt Dee' wisteria, witch hazel and old-fashioned trumpet vine? I envision my own personal urban jungle.

A bit of planning needs to go into this decision

If I seem to go on too long about these marvelous things, it is because I've found that the purchase of a tree or shrub is rarely on impulse alone (though I have hauled home a tree or two that I considered tearing down the garage to make room for). A bit of planning needs to go into this decision, and shoppers may wish to consult with the Helen Fowler Library and DBG's own Dr. Green to help them choose a spot for a new tree or shrub.

I must leave room for other things, however. I never miss the annuals division where I know that Joedy Arnold, assisted by Lisa Bullock, will surprise me. I'm determined to be the



Bedding plants are among the most popular plants for sale at the 42nd Annual Plant & Used Book Sale.

first on my block to grow *Zaluzeanski capensis*, night phlox, although I don't have a clue how to pronounce it. I suppose I'll have *Fibigia clypetea* just because this marvelous new flower for drying sounds terribly exotic. Equally alluring are the new 'Empire' series of salvia, 'Valentine' verbena, 'Prime Time' petunia, 'Carinitum Zebra' annual chrysanthemum, 'Starship' nicotiana (beam me up, Scotty), drought-tolerant 'Crimson Rambler' morning glory and 'Paloma' phlox (a good candidate for mountain gardeners).

Gardeners need to make an effort to locate these great new plants, because some will not be in bloom at the sale itself. Many annuals object to being coerced into bloom before they've put their roots in the soil and the sun has provided the energy to ignite their summer show.

Now, mosey over to the closely-situated summer bulbs division. Janet Sickafuse's selection continues to grow, reflecting a growing love affair between gardeners and bulbous plants, especially hardy lilies, cannas, dahlias and gladiolas. Janet is especially excited about the new calla lilies. Besides the always elegant white *Zantedeschia aethiopica*, she will offer yellow, pink and 'Flame,' an orange-red torch of a flower.

A 'living bouquet' makes a great gift

Rosemary Laughlin's container and statuary division is also located close to the annuals. We've unofficially dubbed it the Mother's Day division. A "living bouquet" makes a great gift.

Planted with a choice flowering perennial, surrounded by fragrant and colorful herbs and annuals, the "living bouquet" containers can be enjoyed on the terrace or patio. In the fall, the perennial can be planted permanently in the garden—a loving reminder in years to come.

Mom is likely to head to Knobby Brown's vegetable booth as well. There, choose from the tried-and-true 'Early Girl'—for those of us who like to brag about the first tomato on the block—or prolific and tasty 'Celebrity' or a highly-rated new paste tomato called 'Bellstar.' It yields fruit twice as large as standard plum types. 'Bush Baby II' watermelon produces sweet and juicy ten-pound fruits on compact plants. Thank goodness. I may just fit in everything after all. Now if I can just talk the moving van people into helping me plant

Emerson R. Birchfield is our special correspondent for the "Flowering of Denver." His motto—when it comes to plants—is, "Too much of a good thing is wonderful."

News From 1991 Sale Divisions

Annuals: Corn cockle, *Agrostema githago*, and 'Jolly Joker' pansies are the "hot" plants this season.

Garden Donations: Blue Russian sage and the beautifully blue Aster, x *frikartii*, 'Wonder of Stafford' (considered one of the world's ten greatest perennials) offer good summer and autumn color for your yard.

Gift Shop: You'll find garden statuary, address tiles, sundials, wind chimes, bird baths, nozzle holders, watering cans, visors and books, books, books among the shops vastly expanded stock. Local writer, artist and DBG teacher Rob Proctor will sign his new book, *Antique Flowers: Annuals* both days from noon to 2 p.m.

Herbs: Pick up some lemon-scented Geraniums or rosemary to make a fragrant topiary.

Houseplants: Plumerias; hanging chenille plants, *Acalypha repens*; blue ferns; and a new fig, *Ficus alli*, should satisfy your craving for "something different."

Orchids: Expand your houseplant horizons with these very growable beauties—miniature cattleyas, phalaenopsis, dendrobiums and oncidiums.

Patio Baskets: Absolutely new hanging plants you'll find are *Guara lingheimi* and *Streptosolen*.

Perennials: How about some shade-loving plants, such as Solomon's seal, Christmas rose or one of many different ferns?

Rock Alpine: Japanese blood grass and *Briza media* are two of the unusual grasses found among the treasures at these booths.

Statuary: Choose a living Mother's Day bouquet, in decorative containers planted with perennials, herbs and annuals.

Summer Bulbs: Calla lilies join an expanded array of oriental hybrid lilies.

Trees and Shrubs: Eastern redbuds bloom pink in early spring and blue mist spirea 'Black Knight' adds blue to the mid-summer scene. You'll find plants here to add garden color all through the year.

Used Books: Tens of thousands of volumes await your browsing. For cheap reading on gardening, travel, natural history, cooking, or, indeed, any subject, make your way to the education building basement for this section of the sale.

Vegetables: Lemon cucumbers are becoming popular; 'Chocolate Bell' pepper is new.

Xeriscape: For intelligent, drier gardening try *Fallugia paradoxa* or the pretty yellow-flowered onion, *Allium flavum*.

Old Garden Roses Add Fragrance to Memorial Day Weekend at DBG

On Saturday, May 25, 9 a.m. until 2:30 p.m., members of the Denver Rose Society will host the Gardens' third annual workshop on old garden shrub and species roses.

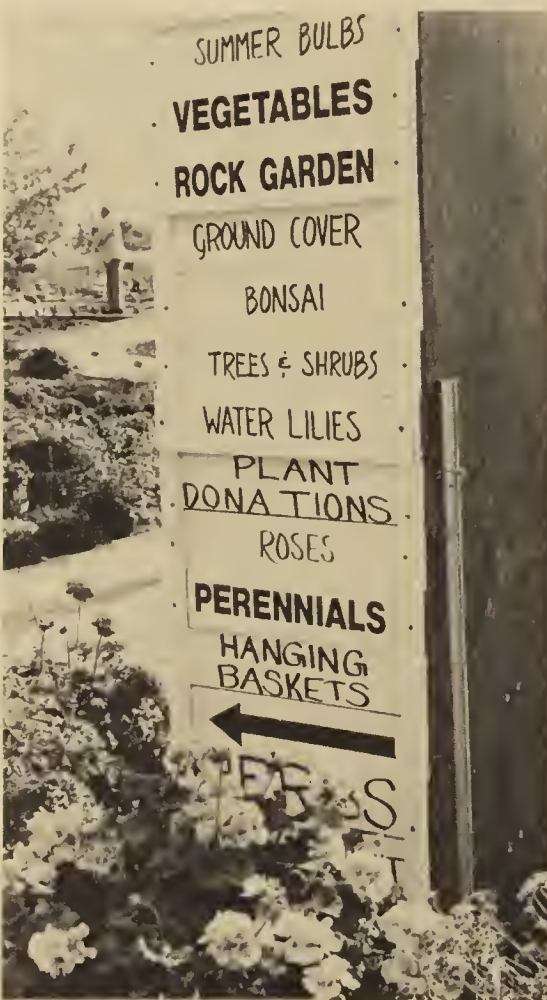
The exhibit will not be juried and you are invited to bring your own spray of blossoms to add to the show. An unusual variety or a particularly floriferous branch from your garden will help spread your enthusiasm for this beautiful and fragrant group of plants. Perhaps there's a magnificent old shrub growing in your alley you'd like to identify—bring in some blossoms. Knowledgeable rose "historians" will be on hand to aid in identification.

Species roses are those ancient plants that have occurred naturally, with no input from hybridizers. Old garden roses are generally considered to be those that were made before the arrival of the first "hybrid tea" in the late 19th century; although some more recent varieties, because of their appearance, are often included in this category. Bourbon, Gallica, centifolia and moss roses are some of the types.

To find out more about this exhibit, including how to enter your flowers, call Linda Campbell of the rose society, 832-7070.

Water Garden Weekend, June 8 & 9

Watch the June newsletter for details on this exciting, informative event at the Gardens.



Volunteers Needed To Help Plant, Keep DBG Beautiful

The Gardens' relatively small staff needs volunteers to help it prepare and maintain the 22 acres of floral displays that visitors will enjoy this spring and summer.

If you love gardening or would like to gain practical gardening experience, you are invited to join the outdoor gardens volunteers that regularly assist the staff gardeners in a variety of activities. The group gathers for work every Tuesday at 9 a.m. Headquarters is the blue and tan service building just west of the Gardens' north gate, a block south of 11th Avenue on Gaylord Street.

If you would like to join the activities, bring your own gloves and small tools, such as a trowel or weeder and be prepared to meet enthusiastic and interesting gardening friends helping out at the Gardens.

For more information call DBG gardener Loddie Dolinski, 331-4000, or Anne Bobal, chairman of the outdoor gardens volunteers, 751-9078.

Iris Show Salutes Colorado Canyons June 1 & 2

Visit the Gardens the first weekend in June to see the glorious rainbow of colors that only the floral genus *Iris* can boast. Not only will Region 20 of the American Iris Society be hosting its annual show, but the Gardens' own collection (the season permitting) will be in full bloom.

Both the show and DBG's iris display garden offer only the finest in modern hybrids. Some will be super-modern—outstanding first-bloom seedlings which have not yet been released for public sale. Members should take advantage of the event to note plants they will want to buy at the July 20 iris sale at the Gardens. (Look for information on the sale in the July newsletter).

The show is called "Royally Gorgeous Iris Salute to Colorado Canyons." Floral arrangers will offer their interpretations of the Royal Gorge, Black Canyon of the Gunnison, Waterton Canyon and dozens of other picturesque chasms around the state. Although the show is timed for the peak bloom of the spectacular tall bearded iris, separate divisions will also display standard dwarf, border, table, Siberian, spuria, aril and species iris.

Hours of the show are 1 to 4:45 p.m. Saturday and 10 a.m. to 4:45 p.m. Sunday. For more information, including entry of flowers in the show, call Tim Kuesel, 420-6806, or Chris Fish, 762-1894.

*If its green
and grows,
chances are,
it will be for
sale at DBG on
May 10 & 11.*

Sensory Tours Reveal More to Plants than Meets the Eyes

Guided tours of the sensory garden in the Morrison Horticultural Demonstration Center are now available for people with special needs.

The garden and its tours have been designed to provide enjoyment and learning about plants through the senses of sight, smell, taste, touch and hearing. The tours have been planned as part of the Gardens' horticultural therapy training program and are available, with advance arrangement, for coordinated groups of people with disabilities and their companions.

A gift of the Pauline A. and George R. Morrison Charitable Trust, the facility is comprised of a classroom building with attached solar teaching greenhouse, the sensory garden and other training facilities for horticultural therapy. When it was dedicated in 1983 the Morrison Horticultural Demonstration Center was the first such building of its kind in the nation. In a March ceremony this year it received a merit award for its architect, Ron Abo Architects, in the Colorado Universal Design Awards Program, set up to "recognize excellence in design and in research which integrally satisfies the requirements of barrier-free access for all peoples."

The center is used to train therapists in the use of horticulture in their programs. It is located at 2320 East 11th Avenue, between Josephine and York Streets, just east of the Gardens' main York Street campus.

Large print editions of all Gardens' information are also available.

To schedule a tour call the education department, 370-8020, or contact the Gardens by TDD (Telephone Device for the Deaf), 370-8032.

Mother's Day, Environmental Day Free at the Gardens

What better time than May for members to bring guests to visit the Gardens?

Not only are the spring flowers popping out all over the grounds, but two free days have been set for this month: Mother's Day, Sunday, May 12, and Environmental Day, Friday, May 17. The regular \$4 nonmember gate fee will be waived for all Colorado residents. In addition, Denver Botanic Gardens charges no admission during its annual Plant and Used Book Sale, which this year is on Friday and Saturday, May 10 and 11.

Share the gardens with a friend and enjoy the lilacs, the peonies, the rock garden phloxes, the



The beauty and climate-modifying benefits of the tropical rain forest, viewed from a distance at left, are being destroyed by clear-cutting, shown above.

International Environment Day Tree Planting

Denver Botanic Gardens will join the Environmental Protection Agency (EPA), Sister Cities of Colorado and a host of other organizations in commemorating Environmental Day, Friday, May 17, during International Week, May 12 to 18.

Sponsored by the EPA, plantings of native Colorado trees will take place in public parks in Denver's Sister Cities around the world, symbolic emphasis of the importance of trees to the environment and their diminishing presence in many countries. In a reciprocal gesture, trees native to the countries of the Sister Cities will be planted at Chatfield Arboretum or placed in the tropical collection of the Gardens. Cities represented at the ceremonies will be Nairobi, Kenya; Madras, India; Brest, France; Kunming, China; Cuernavaca, Mexico; Potenza, Italy; and Takayama, Japan.

Other activities of the day will include an Environmental Product and Information Fair on the Sixteenth Street Mall, between Arapahoe and Stout Streets, and an Environmental Film Festival on Auraria Campus in the North Classroom Building.

For more information on the activities at the Gardens or Chatfield Arboretum, call Jim Trammell, 973-3705. For information on other Environmental Day activities, call Linda Smith, 690-4245.

The Complete Book of Spices:

A practical guide to spices and aromatic seeds

By Jill Norman, Viking Penguin, New York, 1990
\$21.95 • ISBN 0-670-83437-8

The jacket biography of Jill Norman is tantalizingly brief. We are told only that she is well-versed in culinary styles of many countries and that for many years she has written both books and articles on food. Certainly she must have travelled extensively to have written such a book as this.

The first pages define spices and explain how the individual flavors come about. They cover the development of the spice trade with its political and economic impact on world history. It is fascinating reading. There follows a spice index which takes up a little over one quarter of the book.

The large pages allow room for color drawings of each plant and photographs of the whole seed, the ground spice and sometimes the essential oil—the chemical in the plant used to obtain the spice and mixtures in which the spice is found. A box below the illustrations offers paragraphs on the distribution, appearance and growth, harvesting, aroma and taste, culinary and medicinal uses of each spice. Some are familiar, many are not. While dill, mustard, cloves and mace have a spot in most of our pantries, ajowan, cubeb, sumac and grains of paradise may not be so common. Within the text the reader will find advice on how to avoid poor quality or adulterated products and learn how to use these flavorful plants in recipes.

Chapter Three teaches us how to blend our own spice mixtures. The photographs show proportions and the finished product. Five spice powder from China, red curry paste from Thailand, numerous other curry powders, blends from Africa such as zhug and berbere—these are just a sampling. There are recipes for early European spice mixes as well as contemporary mixes such as *quatre-epices* from France. Cajun seasoning and crab boil are two American entries. Once the reader knows how to buy and blend spices, he is given a chance to try his luck. A mini-international cookbook begins with starters and goes through desserts. To prevent dehydration, consider the drinks section. Something as simple as spiced tea might soothe the throat; for stronger stomachs, ginger beer or clove cordial might be just the thing.

—Virginia Stratton is a DBG Volunteer.



Helen Fowler Library Videocassette Collection

The ABC's of Landscaping: Pruning.
The Art of Landscaping: Design.
The Art of Landscaping: Shopping and Planting.
Birr Castle.
Budding and Grafting.
Budding for Beginners.
Budding and Grafting Fruit Trees: A Step-by-step Guide.
Bugs.
Caerhays Castle.
The Chadwick Living Herbarium of Taxus.
Christmas Tree Recycling.
Creating the Romantic Garden.
Daylily Growers and Hybridizers. (6 cassettes)
Deathtrap (Carnivorous plants).
Desert Giant: The World of the Saguaro Cactus.
Disabled Museum Visitors: Part of Your General Public.
Easy Outdoor Projects.
Edible Wild Plants.
Efficient Water Management in the Landscape.
Facing Facts About the Future of Agriculture.
Fairchild Tropical Garden.
The Flowering of the Pacific.
Foolproof Flower Beds.
For the Love of Roses.
Forest in the Clouds.
Gardening from the Ground Up.
Get Ready, Get Set, Grow!
The Glory of the Garden.
Growing Beautiful Lawns.
Growing Beautiful Roses.
Hardy Flowering Plants, Vol. 1.
Horticultural Therapy for the Developmentally Disabled.
How to Grow and Cook Fresh Herbs.
Ikebana.
Integrated Pest Management in Greenhouses.
Integrated Pest Management.
An Introduction to Home Landscape Design.
Inverewe Wester Ross, Scotland.
The Joy of Flower Arranging.
The Key to Effective Water Management.
Kurt Bluemel, Inc. Video Catalog of Ornamental Grasses.
Landscape Design Process.

Lawn Pest Management.
Life and Death of a Tree.
The Life Cycle of the Honeybee.
Make the Magic Happen.
The Many Worlds of Orchids.
Mount Stewart.
Native Wildflowers of Woodland and Prairie.
Our National Parks: A Seasonal Tour.
Our Threatened Heritage.
Peculiar Plants.
Pesticide Safety in the Landscape.
Photosynthesis and Respiration.
Plant Movement and Transport.
Plant Nutrition.
Plant Propagation.
Plant Selection.
Plant Tissue Culture.
Plant Tissue Culture Techniques.
Planting Techniques, Part One: Trees and Shrubs.
Planting Techniques, Part Two: Herbaceous Plants.
Pollination.
Potting and Mounting Orchids.
The Puzzle of the Rotting Log.
Race to Save the Planet. (10 cassettes)
Rain Forest Rap.
Reproduction and Meiosis.
Romancing the Seed.
The Saville and Valley Gardens.
The Secret Gardens of Ireland.
Secret of the Pond.
Sidewalks of Shade.
Solving Landscaping Problems.
Success with Bedding Plants.
The Talking Plant Program.
Techniques in Flower Judging.
Techniques in Plant Identification.
This is Your Life, Acer Maple.
Training Greenhouse Workers to Handle Pesticides Safely.
Tryon Palace Christmas Decoration Library.
Vegetable Garden Pest Management.
Wakehurst Place Gardens.
Waterwise Gardening: Beautiful Gardens with Less Water.
Westonbirt Arboretum.
What's in Your Backyard?
Working Safely with Pesticides.
Xeriscape: Appropriate Landscaping to Conserve Water.
Xeriscape.

Heirloom Herbs:

Using old-fashioned herbs in gardens, recipes and decorations

By Mary Forsell

Villard Books, New York, 1990

\$29.95 • ISBN 0-394-58336-1

Herbs, no matter how hardy, are unlikely to become heirlooms. However, mankind has appreciated these remarkable plants for 60,000 years, using early forms of many still growing today.

The author presents the results of extensive research with enthusiasm and humor, making easy our backward flight in time to find how the ancients used herbs. Old beliefs may amuse us today, but there is a poignancy in these early attempts to form a rational method of treating disease and pain, then so little understood. No wonder that herb garden designs were given such attention. Beautifully photographed plots and plants illustrate every chapter.

The first chapter discusses the planning and selection of a site, to start the gardener on his way. Basic advice about harvesting and preserving of the seasons' produce is found here and throughout the book. It is all sound and helpful, including recipes that use a variety of herbs in ways both new and familiar. These are not only culinary; medicinal formulas may be found, too, for making oils and salves. (The author, by the way, should be commended for specifying that it is the pot marigold, or calendula, that is the marigold of traditional herbal use.)

In the list of sources are suppliers of hard-to-find seeds and plants. Some of these are mentioned in the book with the grower's name, helping the reader to track down whatever has caught his fancy. Makers of foods, potpourri and a variety of handicrafts appear, too.

A bibliography and an index are included, and the recipes are listed in the general index.

— Virginia Stratton

(Heirloom Herbs is also available in the Denver Botanic Gardens Gift Shop.)



The Country Diary of Garden Lore

By Julia Jones and Barbara Deer

Summit Books, New York, 1989

\$16.95 • ISBN 0-671-72882-2

This book patterns itself on *The Country Diary of an Edwardian Lady*. *Garden Lore*, however, presents a most contemporary appearance with glossy paper showing off photographic illustrations by Barbara Deer in all their high-tech glory. The flowers seem real enough to lift from the page. Even the reproductions of 19th-century prints seem clearer and finer than the originals.

In her text Mrs. Jones provides a rich and delightful melange of the myths and maxims of gardening from the time of neolithic man, who enjoyed the familiar blackberry, to our day. The book focuses on English traditions, some of which have traveled to America; but they reached England through many different paths and these are often explained, too.

The origin of the English Mothering Sunday, which became our Mother's Day, grew out of a church decision that parishoners visit the "mother church" or cathedral of their diocese once a year on the 4th Sunday in Lent. In her charming essay on the lily of the valley, the author recalls the story that *eau d'or*, an elixir of the plant, was considered more valuable than gold, perhaps for its gout-curing properties, or perhaps, she

suggests, because a drop on the forehead and back of the neck imbued the recipient with common sense.

The rhymes come from the nursery, the street vendor and poets such as Shakespeare, Longfellow and Shelley. And there are recipes, too, for Easter eggs, a tussie mussie, and my favorite, gooseberry champagne, which happily concludes with instructions to add to every fermented gallon "one half-pint brandy or good whiskey and the same quantity of Sherry or Madeira." That's some champagne!

What a shame, then, that this attractive, amusing book should be marred by a remarkable lack of attention to detail. Within the 123 pages of text there are several illustrations that have no reference to the subject, although others decorate the index beautifully.

— Virginia Stratton

Proceeds from 'Flowering of Denver' used book sales purchase new books for the Helen Fowler Library.

Selection and Maintenance of Spring Bedding Plants

Saturday, May 4
9:30 to 11:30 a.m.
Morrison Center

Learn the criteria for selecting and maintaining healthy nursery stock, including the age of the transplant, the hardening-off process, soil enrichment, transplanting techniques and the varieties adapted to sun or shade.

Instructor: Judy Elliott is an enthusiastic teacher with 15 years of organic gardening experience. She is a master gardener who assists "Dr. Green" at DBG.

Fee: \$8 members/\$10 nonmembers

The Case of the African Violet

Sunday, May 5
1 to 3:30 p.m.
Classroom B

Learn the basics of African violet care: lighting, feeding, watering, temperature control, cleaning, soils, pests and propagation.

You may bring a couple of your pest-free African violets to this class and learn why they won't grow—or why they have grown so tall. Learn the art of leaf propagation and how to separate "babies."

Bring a clean, sharp knife. The instructor will provide cuttings.

Instructor: Debbie Griffith has been growing African violets for 13 years and is currently president of the Rocky Mountain African Violet Council and a show judge.

Fee: \$13 members/\$16 nonmembers (includes \$3 for materials)

Limit: 20

Planning Your Home Landscape—Do It Yourself

(three sessions)
Saturdays, May 11, 18 & 25
9 a.m. to noon
Visitor Center
Chatfield Arboretum

This class will help homeowners plan landscapes for new or existing homes. During the first session you will survey basic design principles and processes for developing and building a landscape to suit your needs.

Topics to be covered are site analysis, circulation planning, micro-climates, grading and drainage, paving and patios, and irrigation systems. Home landscape plants discussed are trees, shrubs, flowers, ground covers, lawns and native grasses.

Instructor: Thomas L. Stephens is a landscape architect who has taught home landscape design for 19 years.

Fee: \$50 members/ \$60 nonmembers (includes \$14 for materials)

Limit: 12

Wildflowers of the Plains Field Trip

Sunday, May 12
10 a.m. to 3 p.m.

This spring field trip to the edge of the prairie at Plainview is an opportunity to observe the spring flora of this area in its full glory. See the Rocky Mountain iris, orange arnica, western wallflower, blue mist penstemon, Easter daisy, spring beauty, pasque flower and others.

Bring your lunch and drinking water. If you have wildflower guides and a hand lens, they will be useful.

Meet: promptly at 10 a.m. at the junction of Highways 93 and 72 between Boulder and Golden in the parking lot at the southeast corner of the intersection.

Instructor: Paul Kilburn, Ph.D., has taught botany and ecology in Colorado for many years.

Fee: \$5 members/\$5.50 nonmembers

Limit: 20

Japanese Tea Ceremony

Section I: Sunday, May 12
Section II: Saturday, May 25
Section III: Sunday, June 16
Section IV: Saturday, June 22
Section V: Saturday, July 20
Section VI: Sunday, July 21
2 to 3 p.m.

Japanese Garden Tea House

Please indicate your section on the registration form.

Because it is based on harmony, respect, purity, tranquility and elegant simplicity, the tea ceremony has for centuries been considered the epitome of Japanese life. This is an opportunity to experience an authentic tea ceremony in the quiet beauty of our Japanese garden.

Instructor: Kathryn Kawakami has done much to inform Denver-area residents about the culture of Japan.

Fee: \$4.50 members/\$5 nonmembers

Limit: 15

Beginning Bird Watching

(two sessions)
Mondays, May 13 & 20
9 a.m. to noon
Visitor Center
Chatfield Arboretum

Learn to recognize birds by their calls, flight patterns and markings. After a short classroom introduction, you will comb the Arboretum for new spring bird residents. Come dressed for the weather conditions of the day.

During the first session, binoculars and field guides will be discussed. If

you already have these bring them along, but do not buy any for the class until you learn some tips about the best and the worst.

The second session involves a short field trip to a favorite birding place. Carpooling and additional entrance fees should be anticipated.

Instructor: Ann Bonnell is a member of the Tuesday Birders, The Denver Audubon Society and the Denver Field Ornithologists.

Fee: \$24 members/ \$29 nonmembers

Limit: 12

Watercolor Painting

(five sessions)
Wednesdays, May 15, 22, 29,
June 5 & 12
Section I: 9:30 a.m. to 12:30 p.m.
Section II: 6:30 to 9:30 p.m.
Classroom B

Please indicate your section on the registration form.

Explore the sparkle and delicacy of watercolor painting while you enjoy the beautiful setting of Denver Botanic Gardens. This course will cover the basic materials and techniques of watercolors, emphasizing freedom of personal expression.

Come prepared with supplies: a one-inch flat brush, #10 round brush, watercolor paper, tissues, container for water, plastic palette and cake or tube watercolors.

Instructor: Boris Shoshensky teaches drawing, watercolor and oil painting at Rocky Mountain College of Art and Design.

Fee: \$60 members/\$72 nonmembers

Limit: 15

Orchids for Beginners

(two sessions)
Saturdays, May 18 and 25
9:30 a.m. to noon
Classroom A

Orchids are highly specialized members of the plant kingdom and, although many are tropical, they can be grown successfully indoors in Colorado.

Learn the basic biology of orchids: their natural history, unique physiology and ecology. You will also receive a thorough overview of selections for your home or greenhouse and learn how to mix the soil, grow orchids under lights and solve the problems that arise in our arid climate.

Instructors: Paula Ogilvie, former president of the Denver Orchid Society, is the newly appointed DBG adult education specialist. Marion Allen is the current president of the Denver Orchid Society.

Fee: \$20 members/\$24 nonmembers

Limit: 15

Organic Lawn Care

Saturday, May 18
9:30 to 11:30 a.m.
Morrison Center

There are specific methods for building and tending a well-maintained chemical-free lawn. Learn soil amendment, mowing, watering and fertilizing techniques for new and established lawns. Insects, diseases and weeds that plague lawns in spring and summer will be discussed from an organic viewpoint.

The class will introduce you to the new turf-type tall fescues, perennial ryes, buffalo grass and blue grama as alternatives to thirsty Kentucky bluegrass.

Instructor: Judy Elliott

Fee: \$8 members/\$10 nonmembers

Identification of Spring Wildflowers

Saturday, May 18
9 a.m. to 2 p.m.
Polly Steele Nature Center
Chatfield Arboretum

Do you get lost using a taxonomic key? This class will cover flower structure, family characteristics and the use of a simple teaching key. Come prepared for indoor and outdoor activities. Bring a sack lunch, wear good hiking shoes and dress for the weather.

Instructor: Vickey Trammell is a popular instructor at Arapahoe Community College, Roxborough State Park and Chatfield Arboretum.

Fee: \$20 members/\$24 nonmembers

Limit: 12

Natural Style Flower Arranging for Spring

Tuesday, May 21
10 a.m. to 2 p.m.
Morrison Center

Create a special floral arrangement that reflects the delicate yet lively flowers of spring. You are encouraged to bring personal materials to add even more variety to your work.

Please bring your own containers and flower snips as well as a container (a small bucket is perfect) for holding water and flowers when cutting materials at the Gardens. A piece of floral foam or a needle-point flower holder and wire cutters or pruning shears will also be useful. Some flowers will be cut at the Gardens, others will be purchased and provided for you. Please bring a lunch to class.

Instructor: An experienced floral designer and teacher, Julia Dobbins has studied floral arranging extensively in the U.S. and England.

Fee: \$31 members/\$35 nonmembers (includes \$15 for flowers)

Limit: 12

Wildflower Weekends — Three Summer Overnight Field Trips

Senior horticultural advisor Andrew Pierce will lead groups of wildflower enthusiasts to choice botanical sites on overnight trips throughout Colorado this summer. Three different weekend trips are planned to coincide with peak summer bloom.

A small, 18-passenger vehicle will leave the Gardens' main parking lot promptly at 8 a.m. on the chosen Saturdays and return the next day at 6 p.m. Hotel accommodations (on a double occupancy basis), two box lunches, refreshments and bus travel are included in the rates. Participants will provide their own Saturday dinners and Sunday breakfasts at local restaurants. The fee for members is \$150, nonmembers will pay \$160.

Although the trips include only short, leisurely walks, participants should be comfortable with high altitude exercise.

Early Alpines at Rocky Mountain National Park Saturday and Sunday, June 22 & 23

Travel over Berthoud Pass and through Granby to stay overnight at Grand Lake. Stop at assorted sites along the way to observe the changing flora, including several wild orchid species, at different elevations. Enjoy a picnic at Monarch Lake.

On Sunday, walk the short trail at the Alpine Visitor Center to hunt early alpines and savor a late lunch at Hidden Valley before heading back to Denver.

Lush Meadows from South Park to Breckenridge Saturday and Sunday, July 6 & 7

After a drive over Kenosha Pass, visit the largest wet subalpine meadow of the United States. The wild irises, shooting stars and other bog plants will be at their glorious best. Following a detour to see brilliant stands of orange paintbrush, travel over Boreas Pass to spend the night in Breckenridge.

The return trip will take you to Hoosier Pass and Hoosier Ridge, homes to a superb assortment of plants, some of them quite rare.

Paintbrushes and Penstemons on the Western Slope Saturday and Sunday, July 20 & 21

The first stop will be near Frisco for a short walk in the aspen woodlands. From there it is up Vail Pass and on to Shrine Pass for glorious displays of paintbrushes and penstemons. Spend the night in Vail.

Visit the Vail Alpine Garden and sidetrack up Ute Pass to see subalpine phlox, then return home via Loveland Pass. Here, on Colorado's highest pass, you can walk easily among choice alpines at 12,000 feet.



Wildflower Weekend Registration Form

Please return this form with your check to Denver Botanic Gardens at least three weeks prior to trip date:

Wildflower Weekend • Denver Botanic Gardens • 909 York St. • Denver, CO 80206

Enclosed is \$_____ for _____ participants.

Registration: DBG members, \$150 per person. Total \$_____

Nonmembers, \$160 per person. Total \$_____

Registration fee covers transportation, hotel (double room) and two box lunches.

Name of Trip(s) _____

Name _____

Address _____

City _____ State _____ Zip _____

Daytime Phone _____ Evening Phone _____

Member ID Number (on top of address label) _____

Roommate's name (if known) _____

☐ Male Roommate wanted ☐ Female Roommate wanted

☐ Smoking ☐ Nonsmoking ☐ Vegetarian

(We regret that no refunds will be made for cancellations unless a replacement is found.)

Beginning Wildflower Identification

Saturday, May 25

9:30 to 11:30 a.m.

**Kathryn Kalmbach Herbarium
Denver Botanic Gardens**

Learn how to use a key to identify wildflowers. This introductory class will enhance your summer hikes. Bring to class any wildflower guides you might have for this region and a hand lens if you have one.

Instructor: Dr. Helen Zeiner taught botany at the University of Denver and is the honorary curator of the Kathryn Kalmbach Herbarium.

Fee: \$8 members/\$10 nonmembers

Limit: 16

Ecology and Flora of North Table Mountain Field Trip

Saturday, May 25

10 a.m. to 3 p.m.

Examine the native biology as well as man's use of this lava-capped mountain, rising 1,000 feet above the plains.

Explore a wide variety of grassland and shrub communities, geology and wildlife of this natural history gem: stands of mountain mahogany, snowberry, skunkbush, chokecherry, mountain maple, lichens and the abundant spring flowers of the foothills.

Bring your lunch and drinking water. If you have wildflower or bird guides, bring those also.

Meet: promptly at 10 a.m., 1.8 miles north of Highway 58 (Golden) on the east side of Highway 93 at the gravel road by a small cottage.

Instructor: Paul Kilburn

Fee: \$5 members/\$5.50 nonmembers

Limit: 20

Japanese Garden Promenade

Section I: Sunday, May 26

2 to 3 p.m.

Section II: Wednesday, June 19

7 to 8 p.m.

Japanese Garden

Please indicate your section on the registration form.

Shofu-en, the Garden of Pine Wind, is a classic Chisen-Kaiyushiki (wet garden with promenade) design. Gracing the northwest corner of the Gardens, it offers a tranquil retreat to visitors and staff. Learn more about the plants used, the construction of the tea house and the symbolism associated with almost every feature of this lovely garden.

Meet: on the bridge to the south of the Japanese garden.

Instructor: Harold Sasaki is a commercial bonsai grower with 19 years of experience.

Fee: \$4 members/\$4.50 nonmembers

Limit: 20

Memorial Day Bike Hike and Picnic

Monday, May 27

10 a.m. to 3 p.m.

Enjoy a leisurely 10-mile trip along paved trails to Chatfield Arboretum where lunch will be served. We will stop at various points of interest to discuss plants and wildlife of the area. After lunch you can play, hike or snooze.

Transportation will be provided back to the Riverfront Mall.

Meet: at the Riverfront Mall, Bowles and Santa Fe Drive, in the parking area of the closed Platinum Triangle Restaurant. Enter the lot from Bowles Avenue. Children ages 12 and up are welcome but must be accompanied by an adult.

Leader: Jim Trammell

Fee: \$10 members/\$12 nonmembers/\$4 children under 16 (includes \$4 for lunch)

Limit: 20 on bike trail, 50 paid lunch guests (Lunches available for family members who drive to the Arboretum/ \$4 each.)

Prairie Plants and Prairie Garden Basics

(two sessions)

Wednesdays, May 29 & June 5

6:30 to 9 p.m.

**Visitor Center
Chatfield Arboretum**

Forbs can be combined with warm-season grasses to enhance the natural beauty of prairie gardens. Learn the principles of xeriscaping and learn how to select plants for a prairie garden plan. Prairie plant materials will be available for study and special gardening techniques for starting and maintaining your garden will be demonstrated.

During the second session, a prairie garden will be planned and installed at Chatfield Arboretum. You will get valuable hands-on experience and feel a sense of accomplishment.

Hands-on activities will be done during both sessions, so please dress appropriately.

Instructors: Rick Brune is a pioneer in creating innovative prairie gardens. Chris Hartung is the horticulturalist at Chatfield Arboretum.

Fee: \$20 members/\$24 nonmembers

Limit: 12

Weeds are for the Birds! (Weeds, Seeds & Wheezing)

Thursday, May 30

6:30 to 8:30 p.m.

**Visitor Center
Chatfield Arboretum**

Are you bothered by certain weed and plant pollens? Do you have hay fever? Learn common allergy plants, when they bloom, how to identify them and how to avoid them.

Ragweed, lamb's quarter, pigweed, Russian thistle and Canadian thistle are attractive food sources to song-birds. Specific birds will be identified along with their particular food sources.

Instructor: Naturalist Tina Jones has birded throughout the United States and teaches bird identification and behavior classes.

Fee: \$8 members/\$10 nonmembers

Limit: 20

Mushroom Identification

(two sessions)

Saturday, June 1 & 8

8:30 a.m. to 12:30 p.m.

Classroom A

This course for beginners will provide a foundation for pursuing the subject in more depth in the future. Spring-fruiting mushrooms of the city as well as the summer-fruiting species of the high country will be covered.

Two slide-lecture sessions cover structure, growth, habitat, seasonality, toxicity and edibility of mushrooms. The use of field guides and keys will be demonstrated and recommendations will be given on guides most useful in our area.

An optional field trip to areas near the Gardens will be scheduled in the afternoon of each session from 1:30 to 3:30. You should bring a sack lunch.

Instructor: Marilyn Shaw lectures and teaches extensively and has been active in the Colorado Mycological Society for 17 years.

Fee: \$32 members/\$35 nonmembers

Limit: 20

More Orchids for the Home Gardener

(two sessions)

Saturdays, June 15 & 22

9:30 a.m. to noon

Classroom A

Building upon your basic knowledge of orchids, this advanced class will focus on different orchid genera. You will learn what makes each group distinctive, their specific growing requirements and their native habitats.

Each student will take a division home following a hands-on dividing and repotting session. Creating displays for orchid shows will also be covered.

Class locations:

Classrooms A, B and C are at 1005 York Street, Denver.

The DBG Morrison Horticultural Demonstration Center is at 2320 East 11th Avenue, Denver.

Chatfield Arboretum is at 9201 South Carr Street, Littleton (southwest of Wadsworth Boulevard and C-470).

Instructors: Marion Allen and Paula Ogilvie.
Fee: \$45 members/\$49 nonmembers (includes \$25 for materials)
Limit: 15

Tree Walk at Washington Park

Saturday, June 22
10 a.m. to noon

Learn to identify many beautiful trees, among them huge cottonwoods, golden rain trees, ginkoes, Eastern wild black cherries, yellowwood and five species of oaks.
Leader: Dr. William G. Gambill, director emeritus of DBG and former botany and biology professor, frequently leads tree walks for the Gardens.

Meet: at 10 a.m. at Washington Park's Marion Parkway entrance (on the north end). Cars will be used for travel within the park.
Fee: \$5.50 members/\$6.25 nonmembers
Limit: 20

Stalking Wild Foods

Saturday, June 22
9 a.m. to noon
Polly Steele Nature Center
Chatfield Arboretum

After a short introductory slide show, the class will take a leisurely hike through the Kim Sterne Survival Garden and learn to recognize local wild foods and herbs.
Instructor: Tammi Morgan has been studying and growing foods and herbs for more than 12 years.
Fee: \$12 members/\$14 nonmembers
Limit: 12

Watercolor Painting

(five sessions)
Wednesdays, June 26,
July 3, 10, 17, & 24
Section I: 9:30 a.m. to 12:30 p.m.
Section II: 6:30 to 9:30 p.m.
Classroom B

Please indicate your section on the registration form.
Explore the sparkle and delicacy of watercolor painting while you enjoy the beautiful setting of Denver Botanic Gardens. This course will cover the basic materials and techniques with emphasis on freedom of personal expression.
Come prepared with supplies: a one-inch flat brush, #10 round brush, watercolor paper, tissues, container for water, plastic palette and cake or tube watercolors.
Instructor: Boris Shoshensky
Fee: \$60 members/\$72 nonmembers
Limit: 15

Beginning Watercolor Landscape Painting

Saturday, June 15
9 a.m. to noon
Polly Steele Nature Center
Chatfield Arboretum

Enjoy the beautiful countryside of Chatfield Arboretum while learning watercolor landscape painting. This course will cover basics of composition, techniques and materials.
Bring a 3/4" flat brush, #5 and #9 round brush and cake or tube watercolors. Also bring a wide-mouth container for water, a small sponge and a soft rag. Watercolor paper will be provided.
Instructor: Chatfield naturalist-guide Frank Shupe is a retired Denver Public Schools art teacher.
Fee: \$14 members/\$16 nonmembers (includes \$2 for materials)
Limit: 12

Father's Day Tours at Chatfield Arboretum

Sunday, June 16
10 a.m. to 5 p.m.
Visitor Center
Celebrate Father's Day at Chatfield Arboretum. Enjoy the picnic facilities, nature trails, playground and special activities. Fathers will be granted a free, motorized guided tour on our new Cushman people carrier (two miles round trip). Excursions will leave the visitor center on the hour from 10 a.m. until 4 p.m.
Leader: Arboretum naturalist Jim Trammell will lead the motorized guided tours. Volunteer naturalist-guides will lead the days activities.
Fee: Members \$1/nonmembers \$2/ fathers and children under 16 free

Italian Cooking with Judith Fine-Sarchielli

Please bring a small chef's knife, paring knife, apron and a cutting board if you wish to participate in the hands-on part of these classes.
The cuisine of Tuscany, a mountainous region of northern Italy, is distinguished by its frugality and elegant simplicity. Because typical dishes rely heavily on seasonal, fresh produce and a deft hand with herbs, these classes are well suited to the gardener who cooks.
Instructor: An accomplished chef and food consultant, Judith Fine-Sarchielli lived in Italy for 15 years.
Fee for each class: \$16.50 members/\$20 nonmembers (includes \$4.50 for materials)
Limit: 12

Classic Tuscan Vegetables

Sunday, May 19
1 to 3:30 p.m.
Kitchen, next to the DBG Library

Summer is the perfect time to discover Florentine vegetable dishes that may serve as the basis for a unique, refreshing meal. Learn about delicious produce such as fennel, artichokes, peppers, leeks and other classics that are readily found locally and are simple to prepare.

Classic Tuscan Seafood First Courses

Saturday, May 25
9:30 a.m. to Noon
Kitchen, next to the DBG Library

Use herbs to season these healthy Sarchielli recipes which are perfect for casual dining and elegant entertaining. Simple to prepare and delicate to the palate, they are delicious additions to your repertoire: Seafood salad, lasagna and soup (*caccuico* — the Italian-style bouillabaisse).

Registration Form for Classes, Field Trips and Lectures

Enclosed is \$ _____ for the following classes:
Name and section of class(es) _____

Name _____
Member of Denver Botanic Gardens ☐ Yes ☐ No
Member ID _____
(on top line of newsletter address label)
Address _____
City _____ Zip code _____
Daytime Phone _____ Evening Phone _____
☐ Cash ☐ Check ☐ VISA ☐ MC
_____ Exp. _____
Signature _____

11
Registration
Class fees must be paid in advance by credit card, check or money order made out to Denver Botanic Gardens. Phone registration will be accepted for credit card payment only. Space in many classes is limited. You will be enrolled in class the day your payment is received. All classes are subject to a minimum of ten students. For further information, please call 370-8020.

MAY

Plant Societies at DBG

Many plant and horticultural societies meet regularly at DBG. For their meeting times, or to contact a representative of any group in which you are interested, call Denver Botanic Gardens during business hours: 331-4000.

Coming Up

Classes are in italics. Asterisk* indicates the first meeting of a class with more than one session.

May

- 4 *Selection and Maintenance of Spring Bedding Plants*
- 5 *The Case of the African Violet*
- 9 "Flowering of Denver" Preview Party
- 10 Plant & Used Book Sale
- 11 Plant & Used Book Sale
- 11 * *Planning Your Home Landscape—Do It Yourself*
- 12 Free Day
- Japanese Tea Ceremony
- Wildflowers of the Plains
- Field Trip
- 13 *Beginning Bird Watching*
- 15 * *Watercolor Painting*
- 17 Free Day
- Environment Day
- 18 * *Orchids for Beginners*
- Identification of Spring Wildflowers
- Organic Lawn Care
- 21 *Natural Style Flower Arranging*
- 22 Herb Garden Open House
- 25 Old Garden Roses Workshop & Show
- Beginning Wildflower Identification*



- 25 *Ecology & Flora of North Table Mountain Field Trip*
- 26 *Japanese Garden Promenade*
- 27 *Memorial Day Bike Hike & Picnic*

Lilies and other bulbous plants are growing in popularity at the 'Flowering of Denver.'

'The Flowering of Denver' 42nd Annual Plant & Used Book Sale May 9, 10 & 11

Denver Botanic Gardens, Inc.

909 York Street
Denver, Colorado 80206
303-331-4000

Address correction requested

TIME VALUE

May 1991

Non Profit Org.
U.S. Postage
PAID
Permit No. 205
Denver, CO

Tom W





Green Thumb



NEWS

**Denver Botanic Gardens
June 1991
Number 91-6**

Jazz, Classics From Around the World Highlight Concert Season

June 21 marks the beginning of the 1991 Garden Concert Series. This year KCFR and Denver Botanic Gardens have arranged a sizzling jazz schedule tempered with just the right mix of classical music.

Members will receive a complete concert schedule in the mail very soon. This brochure will give you instructions on ordering tickets by mail and by phone. Concerts will sell quickly, so tickets for individual concerts may be limited at outlets. We urge members to place your orders early, by phone or mail, so you and your friends will not miss out on the evenings you most want to attend.

Yomo Toro y su Conjunto Friday, June 21 • \$11

This is the first of two encore performances from the 1990 season. The Puerto Rican group puts on one of the most infectious shows you will ever see. If you missed him last year, be sure to catch Yomo Toro this summer.

Olodum Thursday, June 27 • \$11

Olodum appeared on Paul Simon's latest album and video, *The Rhythm of the Saints*. Simon refers to it as one of the greatest percussion bands in the world. Olodum comes to the Gardens on its first American tour.

Beausoleil Thursday, July 11 • \$11

The second encore performance from last season, Beausoleil performs

an unusual, exciting blend of Cajun, Creole, medieval, French, New Orleans jazz and southern boogie. This show sold out very early last year.

Opera a la Carte: Central City Opera with the Denver Chamber Orchestra Thursday, July 18 • \$12

Best-loved scenes and arias will be performed for your pleasure. This promises to be a very special evening at the Gardens.

Shostakovich String Quartet Friday, July 26 • \$11

The repertoire of this world-famous group features Russian composers Rachmaninov, Borodin and Tchaikovsky. Their music will fill the Gardens with romance.

Bill Douglas and the Boulder Bassoon Band Thursday, August 1 • \$11

This group presents not only wonderful music but some of the wittiest commentary to flow from a concert stage. The band is celebrating its 20th anniversary this year, and KCFR and the Gardens invite you to join the fun.

Gurrifio Friday, August 9 • \$11

Gurrifio, a string and flute quintet, will perform distinctly Venezuelan music. Light, lilting rhythms and virtuoso performances are the order of the evening.

Obo Addy and Kukrudu Thursday, August 15 • \$11

Raised with the ancient music of Ga ceremonies, Obo Addy has simultaneously retained his cultural heritage and allowed his music to develop new directions. This contemporary African music is a modern "stew" drawn from many cultures, an irrepressible "world music" all its own.

Claude Bolling and the Claude Bolling Big Band Friday, August 23 • \$12

Bolling is best known to American audiences for his classical crossover albums (*Suite for Flute and Jazz Piano*) and his movie soundtracks (*California Suite*). With a background in both classical forms and modern jazz, he promises to bring us a musical night to remember.

Betty Carter Thursday, August 29 • \$14

With her lilting, velvety voice and cool quaver, Betty Carter has created a sound distinct from any other performer on today's stages. She has toured, recorded and arranged for and with the greatest names in jazz. This, the final concert of the season, will melt your heart and leave you asking for more.

All concerts begin at 7:30 p.m.; the Gardens' gates open at 6 p.m.

Members of Denver Botanic Gardens and KCFR get a \$2 discount on the ticket prices listed above.

Inside:

*Gardens Access
Program
page 2*

*Young
Audiences
page 3*

*Bonsai, Rose,
Iris Shows
page 4*

*Summer
Classes
pages 5-7*

*Coming up
page 8*

Community Pitches in for Successful Sale

It takes a generous community and many hours of hard work to make a volunteer event successful. The Plant & Used Book Sale in May had all of that. The trustees and staff of Denver Botanic Gardens are grateful to all who contributed to the Gardens' biggest fund-raising event of the year.

A special thank you to:

Jane Davis, volunteer chairman of the sale who did an outstanding job at keeping things on schedule, motivating people and sharing her creative ideas.

Michael Ebbs, co-chairman, for jumping in and developing new systems that made life easier for all.

The 58 division chairmen and co-chairmen for a year of endless catalogues, purchase orders, signs and volunteer recruitment.

All underwriters and sponsors whose contributions were essential to the financial success of this year's sale.

Underwriters

Arkansas Valley Seed
Coors Brewing Company
Denver Pottery
Land Title Guarantee
Mrs. Aksel Nielsen
Robinson, Waters, O'Dorisio & Rapson
Wagner Equipment
Western Gard'N Wise
Wilhelm Tree and Lawn Care

Sponsors

American Clay Works
Angela Overy
British Double Decker
Calvary Temple
Center Rentals
City and County of Denver
City Floral
Chicago Style Catering
Coca Cola Bottling Co.
Colorado Barricade
Deep Rock Water
King Soopers
May D&F
Mile High React, Inc.
MTI
Pace Membership Warehouse
United Bank of Denver
Waste Management of Denver
Western Waste Industries

Tributes

In honor of the 90th birthday of Jack Weil

Mr. & Mrs. Robert S. Appel

In memory of Ralph Henry Dick & Jeannette Klein

In memory of Charles Maierhofer The Ted Washburn Family

DBG Improves Access to Programs & Plants With New Tours, Wheelchair Accommodation

Have you noticed? It is getting easier to get around the Gardens and the Arboretum. It is easier to stroll through the gardens at York Street, attend classes and programs in the education building and check out the birds in the Chatfield Arboretum wetlands.

Making both its plants and programs more accessible, not only to people with disabilities, but for all its visitors, is a priority investment of the monies the Gardens receives from the Scientific and Cultural Facilities District. Over \$125,400 in SCFD funds have been set aside for the project.

The key to the success of this program was the formation of a volunteer accessibility advisory group composed of people who have disabilities or have expertise in creating solutions to the barriers that handicapped people face. Chaired by Paul Bilzi and Barbara Levan, the group has met monthly to analyze the Gardens' needs for im-

proved accessibility and to suggest solutions.

The group was instrumental in the design of a new large print visitor guide which has a map showing accessible routes through the Gardens. This and other large print information is available from the education department.

Wheelchair accessibility has been improved to the classrooms and restrooms on the lower level of the education building by transforming a portion of Classroom B into a new entrance to that level, reachable outdoors by a ramp just to the north of the main York Street entrance. Renovations also include new work stations in the classrooms.

On York Street, new off-loading platforms for wheelchair-using passengers have been paved east of the education building. Future plans call for redesigning the ramp from the front entrance up to the amphitheater rim walk and the east-west walkway south of Boettcher Memorial Conservatory. The current ramp is both steep and sharp-cornered.

At Chatfield Arboretum the observation walks to the wetlands have been improved for more confident wheelchair use and the paths around the visitor center have been improved.

The Gardens also offer special services for persons with disabilities.

People with hearing impairment can now call the Gardens on a new phone line connected to a telecommunication device for the deaf (TDD). This number is 370-8032. Dialed from a similar device at the other end, messages can be typed, received and answered.

Groups of visitors may also arrange to be served by sign language interpreters if any of their group uses that form of communication. This service can be arranged through the education office, 370-8020 (or 370-8032 TDD), and must be requested six weeks in advance of the desired tour date.

Rebecca Haller is the DBG horticultural therapist. For information about the horticultural therapy program, call 370-8042.

ASLA Garden Tour

The Colorado Chapter of the American Society of Landscape Architects annual summer garden tour will take place on Sunday, June 23, in the Cherry Hills neighborhood. The tour will offer a wide range of professionally styled residential gardens including a Xeriscape garden.

Proceeds from the tour benefit the local chapter endowment fund. Tickets (\$10) are available at King Soopers customer service centers. Discounts are available for garden clubs and large groups. For more information call the CC/ASLA at 640-1029.

Green Thumb News Number 91-6 June 1991

Published monthly by
Denver Botanic Gardens
909 York Street
Denver, Colorado 80206-3799

Edited by Larry Latta, 370-8033

Deadline for the July issue May 20

Subscription to this newsletter is a benefit of membership in Denver Botanic Gardens. For information please write the membership department at the above address or call 370-8029.

Denver Botanic Gardens and Chatfield Arboretum are established and maintained by Denver Botanic Gardens, Inc., for the people of the City and County of Denver and for the general public in cooperation with the Denver Parks and Recreation Department.

Denver Botanic Gardens is also grateful for funds from the Scientific and Cultural Facilities District (SCFD), which enable the Gardens to maintain its facilities better, expand services and enhance the quality of programs and exhibits.



Accredited by the
American Association
of Museums



Fish, Plants At Weekend Water Gardening Fest



The Gardens will devote the weekend of June 8 and 9 to the fish and plants of water gardening. Fish will be displayed indoors and out both days. Sunday will feature the annual auction of rare water plants by the Colorado Water Garden Society.

Members of the Rocky Mountain Koi Club will exhibit brilliantly colored Japanese fish outdoors in more than a dozen 200-gallon tanks near the DBG Xeriscape Demonstration Garden from 10 a.m. to 5 p.m. each day. Visitors will be able to vote for their favorite fish to be recognized along with those more formally judged. An auction will be held at 1 p.m. Saturday, June 8.

In the Lobby Court, aquariums will display fish from both the Colorado Aquarium Society and the Goldfish Society of America. At 10 a.m. Saturday, Paul Martin and Gale

Schmidt of the aquarium society will conduct a workshop on fresh and salt water fish as hobbies.

Sunday's featured event is an auction of rare water and marsh plants by the Colorado Water Garden Society. A portion of the proceeds will help support the world class water plant collection at DBG.

Also on Sunday, members of the Colorado Water Garden Society will present a series of public lectures. At 9:30 a.m., John Mirgon, first president of the society, will talk about the International Water Lily Society. At 10 a.m., Dan Winter, a board member of the society, will discuss goldfish for the aquarium and garden pool, and at 11 a.m., Joseph Tomocik, curator of DBG's water gardens, will discuss growing tropical water lilies.

Nature Conservancy Option on 1,000-Acre High Creek Fen Nears Deadline

June 15 is the deadline for The Nature Conservancy to purchase a 1,000-acre site in South Park containing the High Creek Wetland. A rare form of wetland called a fen, High Creek is the home of a rich assortment of high altitude marsh plants, including at least 10 that are on lists of Colorado's rare plant species.

Current owners of the High Creek property hold a peat strip mining permit. Exploiting this horticultural commodity will destroy a plant community that has persisted nearly unchanged since the last Ice Age. The species represent a disjunct population typical of the Arctic tundra.

Surprisingly, the area was overlooked by botanists until 1989. Dr. David Cooper of the Colorado School of Mines and Dr. William Weber of the University of Colorado Herbarium have since identified three species from the wetlands never before documented from Colorado and three more that have been found only rarely. The wetland's Greenland

primrose, hoary willow, little bulrush and pale blue-eyed grass are all classified as "plant species of special concern" to Colorado. The pale blue-eyed grass is a candidate for the Federal Endangered Species Act's "threatened or endangered" list; its existence outside the High Creek fen is very rare.

Dr. Cooper says, "The High Creek Wetland is the best example of a rich fen that we know of in the Southern Rocky Mountains. It contains more rare species than any other wetland in Colorado." Indeed, it may be unique. Extensive searches for similar habitats have been in vain. The Conservancy says, "It's the last of its kind."

The June 15 purchase price is \$700,000, toward which the Helen K. and Arthur E. Johnson Foundation has issued a \$300,000 challenge grant. DBG members interested in more information on High Creek should contact the Colorado Field Office of The Nature Conservancy at 444-2950.

Young Audiences Concerts for the Entire Family

"Listen to the Gardens," the concert series for the entire family, is back for 1991. If you are looking for family activities that entertain and educate, this series is your answer. It includes music, dance and drama.

A Simply Grimm Evening Tuesday, June 25

A giant storybook slowly opens and tales come alive before your eyes. Hansel and Gretel, The Fisherman and his Wife and Cinderella become reality when The Illustrated Theatre Touring Company takes the stage. The company's use of animation, mime and magic to interpret these classics will enchant children of all ages.

The Great American Band-Age Tuesday, July 9

The Denver Municipal Band and Hot Pickles will stir up the hottest dish of the season when they mix 76 trombones with just the right amount of Copeland, Foster, Sousa, Joplin and Bernstein to get your toes tapping. Sing along! It's an all-American night at the Gardens.

Ti-Jean and His Brother Tuesday, July 23

Denver's own Eulipion Theatre will delve into magical folklore from the West Indies. The unusual visuals, vibrant dance and original music tell a powerful story of good over evil in this captivating final concert of the season.

Gates open at 5:45 p.m. each concert evening. The concerts begin at 6:30 p.m.

This year you can purchase the entire family concert series for \$12, or buy individual tickets for \$5. Children under 2 are admitted free. Tickets will be available after June 1 at the Gardens, Young Audiences, The Wizard's Chest and all Pace Membership Warehouses.

"Listen to the Gardens" is brought to you by and for the benefit of Young Audiences and Denver Botanic Gardens, in cooperation with Pace Membership Warehouse.

Fascinated, captivated, enchanted—children will be spellbound as they "Listen to the Gardens."



Iris Provide Show Inside & Out June 1 & 2

The annual iris show by the local chapter of the American Iris Society makes its appearance at the Gardens Friday and Saturday, June 1 and 2. The show is scheduled for the main blooming season of the popular garden iris, the tall bearded "German" hybrids. However, other types will be on display as well. Also, the Gardens' collection of modern hybrids will provide a beautiful accompaniment to the exhibits in John C. Mitchell II Hall.

Hours of the show, titled "Royally Gorgeous Salute to Colorado Canyons," are 1 to 4:45 p.m. Saturday and 10 a.m. to 4:45 p.m. Sunday. For more information call 420-6806 or 762-1804.

Remember, the society will have its iris rhizome sale at the Gardens in July. This June show is your opportunity to view the flowers and make a wish list to guide your purchases at the sale. It's also your annual chance to see the variety and spectacular beauty of this justly popular perennial.

Lecture Highlights '91 Quilt Show & Sale

"Petals & Threads," the annual DBG quilt show and sale September 27-29 will feature a lecture and workshop by award-winning quilter and teacher Nancy Halpren.

"Nature, Landscape and Quilting" will inspire and entertain quilters and non-quilters alike. Slides will illustrate nature's innate geometry and explore the adaptation of these designs for quilting. The lecture will be presented on Friday, September 27 at 7 p.m. in John C. Mitchell II Hall.

On Friday & Saturday, September 27 and 28 from 9 a.m. to 4 p.m. Halpren will conduct a workshop where participants will develop original quilt patterns based on the geometric suggestions of natural objects (leaves, flowers, stars) and combine them into "quilt landscapes" (trees, gardens, sky). The workshop is for intermediate and advanced quilters.

Advance tickets for the lecture are \$6 members/\$7.50 nonmembers. At the door tickets are \$7.50 members/\$10 nonmembers. The workshop fee is \$60 members/\$75 nonmembers. For more information call the Education Department, 370-8020.

Quilts of all sizes are needed for the annual show. Botanical themes are encouraged, but all designs are welcome.

Deadline for entries is August 1. For entry forms send a self-addressed, stamped envelope to Becky Carroll, 12323 Clayton St., Denver, CO 80241.



For DBG Members: Fall Foliage Tour of Hudson River

Travelers, mark October 11 - 16 on your calendars. The Denver Botanic Gardens tour sub-committee has arranged a trip for members to encounter the spectacular fall foliage of the Hudson River Valley.

It has been said no region of America excites more admiration than the Hudson River Valley, the natural wonders of which surpass even the fabled Rhine. The DBG tour will pass through this American natural wonder the week of its peak autumn color.

Travelers will view the private gardens of many prominent New York families including the "secret" gardens not usually open to the public. A visit to Hyde Park, lunch at the Culinary Institute of America, a tour of West Point and a trip to the famous Brooklyn Botanic Garden are on the itinerary.

For more information on this tour, please call Andrew Pierce, 370-8002.

Queen of Flowers At June DBG Show

Roses, considered the "queen of flowers," will make their regal appearance at the Gardens on Sunday, June 23, at the annual rose show by the Denver Rose Society. Hours are 1 to 6 p.m.

The show is judged and accredited, and includes miniatures, large-flowered hybrids (most of which were formerly classifieds as "hybrid teas") grandifloras, floribundas, shrub roses and species.

Sunday morning, before the show, you'll want to visit the Gardens' May Bonfils Stanton Memorial Rose Garden, where the DBG collection will also be in full bloom.

For more information, call chairman Gerry Boller, 422-5905.

Bonsai Show Features Special Tour for Visually Impaired

The Gardens' annual Father's Day weekend bonsai exhibition by the Rocky Mountain Bonsai Society will again offer a special one-hour pre-opening tour for people with visual impairment and their companions. The tour, led by specially trained members of the society, is at 8 a.m. Saturday, June 15. By special arrangement, those persons desiring the tour qualify for the Gardens' group admission fee of \$3 per adult, even if they enter the gate individually. Members of the Gardens, of course, enter free.

Hours of the show for other visitors are 9 a.m. to 4:45 p.m., June 15 and 16. Demonstrations are scheduled for 11 a.m., 1 p.m. and 3 p.m. both days.

This is the most comprehensive display of bonsai outside the large Japanese cultural centers of the East and West Coasts. Plants displayed range from native ponderosa pines, hundreds of years old, to marvelously trained, blooming bougainvilleas. All styles of the bonsai art will be represented; and, for the first time, an exhibit of viewing rocks will be included.

For more information on the special tour of the show call Marty McKinley, 329-0957.

Watercolors Light Up Mitchell Hall in July

The Colorado Watercolor Society will stage its annual Fourth of July show in John C. Mitchell II Hall from July 1 through July 7. The exhibit will be open until 8 p.m. on Monday, Wednesday, Saturday and Sunday.

Behind the Scenes Greenhouse Tours

**Section I: Sunday, June 9
1 to 2 p.m.**

**Section II: Saturday, June 29
1 to 2 p.m.**

Please indicate your section on the registration form.

Ever wonder what goes on behind the beautiful displays at DBG? This is your chance to view propagation facilities, the service greenhouses and the orchid and bromeliad house — behind-the-scenes collections seldom accessible to the public.

Meet: DBG Lobby Court

Tour Leaders: DBG greenhouse staff members.

Fee: \$2.00

Limit: 15

Beginning Watercolor Landscape Painting

Saturday, June 15

9 a.m. to noon

**Polly Steele Nature Center
Chatfield Arboretum**

Enjoy the beautiful countryside of Chatfield Arboretum while learning watercolor landscape painting. This course will cover basics of composition, techniques and materials.

Bring a 3/4" flat brush, #5 and #9 round brush and cake or tube watercolors. Also bring a wide-mouth container for water, a small sponge and a soft rag. Paper will be provided.

Instructor: Chatfield naturalist-guide Frank Shupe is a retired Denver Public Schools art teacher.

Fee: \$14 members/\$16 nonmembers (includes \$2 for materials)

Limit: 12

More Orchids for the Home Gardener

(two sessions)

Saturdays, June 15 & 22

9:30 a.m. to noon

Classroom A

Building upon your basic knowledge of orchids, this advanced class will focus on different orchid genera. You will learn what makes each group distinctive, their specific growing requirements and their native habitats.

Each student will take a division home following a hands-on dividing and repotting session. Creating displays for orchid shows will also be covered.

Instructors: Marion Allen is the current president of the Denver Orchid Society. Paula Ogilvie is the DBG adult education specialist.

Fee: \$45 members/\$49 nonmembers (includes \$25 for materials)

Limit: 15

Father's Day Tours at Chatfield Arboretum

Sunday, June 16

10 a.m. to 5 p.m.

Visitor Center

Celebrate Father's Day at Chatfield Arboretum. Enjoy the picnic facilities, nature trails, playground and special activities. Fathers will be granted a free, motorized guided tour on our new Cushman people carrier (two miles round trip). Excursions will leave the visitor center on the hour from 10 a.m. until 4 p.m.

Leader: Arboretum naturalist Jim Trammell will lead the motorized guided tours. Volunteer naturalist-guides will lead the day's activities.

Fee: \$1 members/\$2 nonmembers/fathers and children under 16 free

Tree Walk at Washington Park

Saturday, June 22

10 a.m. to noon

Learn to identify many beautiful trees, including huge cottonwoods, golden rain trees, ginkoes, Eastern wild black cherries, yellowwood and five species of oaks.

Leader: Dr. William G. Gambill, director emeritus of DBG and former botany and biology professor, frequently leads tree walks for the Gardens.

Meet: 10 a.m. at Washington Park's Marion Parkway entrance (on the north end). Cars will be used for travel within the park.

Fee: \$5.50 members/\$6.25 nonmembers

Limit: 20

Stalking Wild Foods

Saturday, June 22

9 a.m. to noon

**Polly Steele Nature Center
Chatfield Arboretum**

After a short introductory slide show, the class will take a leisurely hike through the Kim Sterne Survival Garden and learn to recognize local wild foods and herbs.

Instructor: Tammi Morgan has been studying and growing foods and herbs for more than 12 years.

Fee: \$12 members/\$14 nonmembers

Limit: 12

Rocky Mountain Arsenal Field Trip

Sunday, June 23

1 to 3:30 p.m.

Learn about the history of Rocky Mountain Arsenal and the current plans for cleaning up contamination from past production and storage of weapons and chemicals. See how this 27-mile island in a sea of civilization is

coming back to life. Expect to see bald and golden eagles, hawks, coyotes, mule deer and white-tailed deer.

Meet: shortly after 1 p.m. at the west arsenal gate, 72nd Avenue and Quebec Street in Commerce City. A bus will meet you there and take you to the arsenal. No private cars are permitted on the grounds.

Instructor: A park ranger or wildlife biologist from the U.S. Fish and Wildlife Service will lead this tour.

Fee: No charge, but advance reservation is required. Use the registration form.

Limit: 70

Watercolor Painting

(five sessions)

Wednesdays, June 26,

July 3, 10, 17 & 24

Section I: 9:30 a.m. to 12:30 p.m.

Section II: 6:30 to 9:30 p.m.

Classroom B

Please indicate your section on the registration form.

Explore the sparkle and delicacy of watercolor painting while you enjoy the beautiful setting of Denver Botanic Gardens. This course will cover the basic materials and techniques with emphasis on freedom of expression.

Come prepared with supplies: a one-inch flat brush, #10 round brush, watercolor paper, tissues, container for water, plastic palette and cake or tube watercolors.

Instructor: Boris Shoshensky teaches watercolor and oil painting at Rocky Mountain College of Art & Design.

Fee: \$60 members/\$72 nonmembers

Limit: 15

Tundra Trip to Corona Pass

Sunday, July 7

8 a.m. to 4 p.m.

Visit one of the most spectacular passes in the Front Range. Observe tundra ecology and many different wildflowers as well as man's influences. Follow the abandoned railroad to the abandoned hotel at the top of the pass. The abundant wildflowers found here include paintbrushes, miniature clovers, alpine avens, snow buttercups and a host of others.

Bring a lunch, rain gear and a sweater. Plant guides and a hand lens are useful if you have them.

Meet: promptly at 8 a.m. at the northeast parking lot of the Rock Cut (I-70 at Exit 259).

Instructor: Paul Kilburn, Ph.D. has taught botany and ecology in Colorado for many years.

Fee: \$5 members/\$5.50 nonmembers

Limit: 18

Summer
1991
Denver Botanic Gardens

CLASSES

Wildflower Weekends — Three Summer Overnight Field Trips

Senior horticultural advisor Andrew Pierce will lead groups of wildflower enthusiasts to choice botanical sites on overnight trips throughout Colorado this summer. Three different weekend trips are planned to coincide with peak summer bloom.

A small, 18-passenger vehicle will leave the Gardens' main parking lot promptly at 8 a.m. on the chosen Saturdays and return the next day at 6 p.m. Hotel accommodations (on a double occupancy basis), two box lunches, refreshments and bus travel are included in the rates. Participants will provide their own Saturday dinners and Sunday breakfasts at local restaurants. The fee for members is \$150, nonmembers will pay \$160.

Although the trips include only short, leisurely walks, participants should be comfortable with high altitude exercise.

Early Alpines at Rocky Mountain National Park Saturday & Sunday, June 22 & 23

Travel over Berthoud Pass and through Granby to stay overnight at Grand Lake. Stop at assorted sites along the way to observe the changing flora, including several wild orchid species, at different elevations. Enjoy a picnic at Monarch Lake.

On Sunday, walk the short trail at the Alpine Visitor Center to hunt early alpine and savor a late lunch at Hidden Valley before heading back to Denver.

Lush Meadows from South Park to Breckenridge Saturday & Sunday, July 6 & 7

After a drive over Kenosha Pass, visit the largest wet subalpine meadow of the United States. The wild irises, shooting stars and other bog plants will be at their glorious best. Following a detour to see brilliant stands of orange paintbrush, travel over Boreas Pass to spend the night in Breckenridge.

The return trip will take you to Hoosier Pass and Hoosier Ridge, homes to a superb assortment of plants, some of them quite rare.

Paintbrushes and Penstemons on the Western Slope Saturday & Sunday, July 20 & 21

The first stop will be near Frisco for a short walk in the aspen woodlands. From there it is up Vail Pass and on to Shrine Pass for glorious displays of paintbrushes and penstemons. Spend the night in Vail.

Visit the Vail Alpine Garden and sidetrack up Ute Pass to see subalpine phlox, then return home via Loveland Pass. Here, on Colorado's highest pass, you can walk easily among choice alpine at 12,000 feet.

Wildflower Weekend Registration Form

Please return this form with your check to Denver Botanic Gardens at least three weeks prior to trip date:

Wildflower Weekend • Denver Botanic Gardens • 909 York St. • Denver, CO 80206

Enclosed is \$_____ for _____ participants.

Registration: DBG members, \$150 per person. Total \$ _____

Nonmembers, \$160 per person. Total \$ _____

Registration fee covers transportation, hotel (double room) and two box lunches.

Name of Trip(s) _____

Name _____

Address _____

City _____ State _____ Zip _____

Daytime Phone _____ Evening Phone _____

Member ID Number (on top of address label) _____

Roommate's name (if known) _____

☐ Male Roommate wanted

☐ Female Roommate wanted

☐ Smoking

☐ Nonsmoking

☐ Vegetarian

(We regret that no refunds will be made for cancellations unless a replacement is found.)

Alpine Ecology

(two sessions)

Wednesday, July 10 (lecture)

7 to 9 p.m.

Classroom C

Sunday, July 14 (field trip)

7 a.m. to 5 p.m.

The treeless tundra dominating the landscape above timberline is actually a kaleidoscope of 20 or more separate plant communities, each in its special ecological niche. The communities range from windswept fell fields harboring cushion plants such as moss campion and nailwort to wetlands of black sedges and marsh marigolds.

This course introduces you to the ecology of this wide-spread Colorado Rocky Mountain habitat. A single lecture is followed by an all-day field trip to Hoosier Pass above Breckenridge.

Instructor: Paul Kilburn

Fee: \$15 members/\$16.50 nonmembers

Limit: 20

Nests Are for the Birds!

Thursday, July 11

6:30 to 9 p.m.

Classroom B

It is still not too late to see birds, chicks and nests because many Colorado birds have two or three clutches of eggs throughout the season.

You will learn nest identification, courtship behavior, chick rearing and parental care, tree cavity nests (such as woodpecker holes) versus conventional nests, and colonial versus solitary nesters. Actual nests will be available for viewing.

Instructor: Tina Jones has birded extensively in the United States. She teaches bird behavior and natural history classes for DBG and for the Denver Museum of Natural History.

Fee: \$10 members/\$12 nonmembers

Limit: 25

Wildflower and Landscape Photography Lecture

Thursday, July 11

7 to 9:30 p.m.

Classroom C

Sharpen your sense of composition and photographic technique while learning the fine art of wildflower and landscape photography from a nationally recognized expert. This comprehensive and beautiful presentation is open to wildflower lovers as well as serious photographers. It will cover the following topics: finding flowers,

Class locations:

Classrooms A, B
and C are at
1005 York
Street, Denver.

The DBG
Morrison
Horticultural
Demonstration
Center is at
2320 East 11th
Avenue, Denver.

Chatfield
Arboretum is at
9201 South
Carr Street,
Littleton (south
on Wadsworth
Boulevard 0.3
mile past C-
470, west onto
Deer Creek
Canyon Road).

selective gardening, plant protection equipment, lighting, backdrops, uses of depths of field, filters, films, metering, composition and special effects.

This program is co-sponsored by the National Wildflower Research Center and DBG.

Instructor: John D. Smithers is the owner of DeHart Media, an award-winning firm in Austin, Texas. He also holds a masters degree in film from the University of Texas.

Fee: \$18 members/\$20 nonmembers
Limit: 60

Wildflower and Landscape Photography Lecture and Workshop

(five sessions in three days)
Thursday, July 11: 7 to 9:30 p.m.
Classroom C
Saturday, July 13: 6:30 to 11 a.m.
outside at DBG and 6 to 9 p.m.
Classroom C
Sunday, July 14: 6:30 to 11 a.m.
Chatfield Arboretum
6 to 9 p.m.
Classroom C

Learn the fine art of wildflower and landscape photography through an evening lecture and a weekend workshop. Participants must attend the Thursday evening lecture. On Saturday morning you will photograph flowers at the Gardens, then move out to Chatfield Arboretum for Sunday morning's "shoot out." Each day you will return to DBG for an evening critique of your morning endeavors. This immediate feedback provides an effective learning tool.

The following materials are required: one 35 mm camera with a macro lens, one tripod, preferably one that can be lowered close to the ground, and three rolls of either Ektachrome or Fujichrome 100 film. In addition, please bring these items if you have them: normal, ring-light or standard flash unit with remote sensor; 18 percent reflectant gray card; lens extension tubes or bellows; kneepads; small atomizer for spraying "dew" on flowers; polarizing and 81-A filters for your favorite lens; and a shutter release cable.

Please note that students should already have a good working knowledge of their cameras.

The lecture and workshop are co-sponsored by the National Wildflower Research Center and DBG.

Instructor: John D. Smithers
Fee: \$130 members/\$150 nonmembers (includes lecture, two-day workshop and processing cost for three rolls of film)
Limit: 15

Drawing from Nature

(six sessions)
Mondays, July 15, 22, 29
August 5, 12 & 19
9:30 a.m. to 12:30 p.m.
Classroom B
(Classroom C, July 22)

From living plants to still life settings, from realism to abstraction, learn to see, sketch and draw natural forms and designs and then translate your black and white studies into exciting color. You will receive instruction and demonstration in assorted media and subject matter.

Bring a large sketch pad, soft charcoal and drawing pencils to the class.

Instructor: Oksana Ross, Ph.D., is an art historian and artist. She has also taught at the University of Colorado at Denver, Metropolitan State College and Colorado Women's College.

Fee: \$48 members/\$58 nonmembers
Limit: 20

Rainforest Conference for Teachers

Friday & Saturday, July 19 & 20
Denver Museum of Natural History

Denver Botanic Gardens will sponsor a two-day conference/workshop titled "Tropical Rainforests: A Disappearing Treasure" to be held Friday and Saturday, July 19 and 20 at the Denver Museum of Natural History. The conference is designed to inform educators and resource specialists of tropical rainforest ecology and the causes and consequences of rainforest destruction. It also addresses possible solutions. The conference will provide the tools to raise public awareness of these issues in your community or school district.

Call the Denver Museum of Natural History at 322-7009 for more information or registration details.

Field Trip to Rocky Mountain National Park

Saturday, July 20
10 a.m. to 3 p.m.
Explore the rich woods surrounding two of the prettiest lakes in the park. You should find several native orchids, including the elusive purple lady's slipper, *Cypripedium fasciculatum*. Bring your lunch and drinking water.

Leader: Dick Schwendinger is a popular field trip leader for the Gardens and is especially fond of wild orchids.

Meet: promptly at 10 a.m. at the Moraine Park visitor center. Please call the education department at 370-8020 if you need directions.

Fee: \$5 members/\$5.50 nonmembers. Each car entering the park must purchase a daily user pass in addition to the field trip fee.

Limit: 15

Field Trip to Boreas Pass Near Breckenridge

Saturday, July 27
1 to 4 p.m.
Boreas Pass was once a major stage route leading from Como, in South Park, to Breckenridge. Later, the narrow-gauge Denver, South Park and Pacific Railway was extended over the pass. It is now a well-maintained gravel and dirt road on the Breckenridge side. An easy walk will enable you to see both montane and alpine wildflowers—spectacular scenery!

Leader: Dick Schwendinger
Meet: promptly at 1 p.m. in front of the Summit County courthouse in Breckenridge.

Fee: \$5 members/\$5.50 nonmembers
Limit: 15



Registration Form for Classes, Field Trips and Lectures

Enclosed is \$ _____ for the following classes:

Name and section of class(es) _____

Name _____

Member of Denver Botanic Gardens ☐ Yes ☐ No

Member ID _____
(on top line of newsletter address label)

Address _____

City _____ Zip code _____

Daytime Phone _____ Evening Phone _____

☐ Cash ☐ Check ☐ VISA ☐ MC

_____ Exp. _____

Signature _____

7

Registration

Class fees must be paid in advance by credit card, check or money order made out to Denver Botanic Gardens. Phone registration will be accepted for credit card payment only. Space in many classes is limited. You will be enrolled in class the day your payment is received. All classes are subject to a minimum of ten students. For further information, please call 370-8020.

JUNE

Coming Up

Classes are in italics. Asterisk* indicates the first meeting of a class with more than one session.

June

- 1 & 2 American Iris Society Show
- 8 & 9 Water Gardening Weekend
- 9 *Behind the Scenes Greenhouse Tour*
- 15 *Beginning Watercolor Landscape Painting*
- 15 & 16 Rocky Mountain Bonsai Society Exhibition
- 15 & 22 *More Orchids for the Home Gardener*
- 16 *Father's Day Tours at Chatfield Arboretum*
- 21 Yomo Toro y su Conjunto Garden Concert
- 22 *Tree Walk at Washington Park*
- 22 *Stalking Wild Foods*
- 22 & 23 *Wildflower Weekend Field Trip*
- 23 Denver Rose Society Show
- 23 *Rocky Mountain Arsenal Field Trip*
- 25 A Simply Grimm Evening Young Audiences Concert
- 26 * *Watercolor Painting*
- 27 Olodum Garden Concert
- 29 *Behind the Scenes Greenhouse Tour*

*Internationally recognized photographer
John Smithers will present a lecture and workshop
on wildflower and landscape photography next month.*



*Enjoy a summer evening at the Gardens.
Now open until 8 p.m. every Monday,
Wednesday, Saturday & Sunday.*

Denver Botanic Gardens, Inc.

909 York Street
Denver, Colorado 80206
303-331-4000

Address correction requested

TIME VALUE

June 1991



Non Profit Org.
U.S. Postage
PAID
Permit No. 205
Denver, CO

Tom W

Plant
Societies
at DBG

Many plant and
horticultural
societies meet
regularly at
DBG. For their
meeting times, or
to contact a
representative of
any group in
which you are
interested, call
Denver Botanic
Gardens during
business hours:
331-4000.



Amphitheater Concerts Continue

Two series of concerts in the amphitheater continue in July, bringing a month of music for the whole family.

Tuesday, July 9, the Young Audiences/Denver Botanic Gardens "Listen to the Gardens" concert sets off musical fireworks with The Great American Band-Age. Then, Tuesday, July 23, the final show of this series is Ti-Jean and His Brother, a vibrant evening of dance. Tickets are available at the Gardens' special events office in the carriage house, 909 York Street.

The KCFR Garden Concerts begin the month hot and spicy with the sounds of Beausoleil Thursday, July 11. Then Thursday, July 18, as the weather heats up the music mellows out with Opera a la Carte, featuring the Central City Opera and the Denver Chamber Orchestra. Friday, July 26, brings the exciting Shostakovich String Quartet. If you still haven't ordered tickets for these concerts, check your concert brochure for ordering information and order soon; if a show is sold out by mail, no tickets will be available at the outlets.

Green Thumb



NEWS

Denver Botanic Gardens July 1991 Number 91-7

DBG Takes 'Plants of Africa' to Denver Black Arts Festival in City Park

Denver Botanic Gardens will present "Plants of Africa" at the fifth annual Denver Black Arts Festival in City Park Saturday and Sunday, July 13 and 14. This is DBG's second year at the popular cultural fair.

This year's festival, called an "African American Odyssey," celebrates the entire range of art genres, the important contributions that African Americans have made historically and the roles they and their art play in Denver's cultural life today. In addition to the weekend events, other festival performances will be staged around the city beginning July 10.

"Song Birds of the Rockies," a concert at East High School Wednesday, will feature some of Denver's finest female vocal artists. Thursday the "First Annual DBAF Film Exhibition" will screen the recently released movie *A Rage in Harlem* with a discussion by director Bill Duke at the Denver Center for Performing Arts' Ricketson Theatre. Friday evening's dance and theater program will present T'Keyah "Crystal" Keymah (from TV's *In Living Color*) and the United Ballet Africain de Senegal.

The City Park main stage gets active Saturday at noon with local performers. High Risk will entertain with top 40's songs and rhythm and blues, and the afternoon continues with Andre Sparks/Positive Image, rap; Twenty Four Seven, R & B; Felicia Creighton, vocals; 4 Pleasure,

female vocals; Eclipse, male dance group; Red Alert, female vocalists; and Homeboys, rap. The evening's performers are Bass 10, R & B; Movement Free Dance Company — "Caramel, Chocolate and Cinnamon"; Kathy Jasmes, R & B; Hazel Miller, blues; and either Drums of Fire or Mohammed Bangra.

Sunday at 1 p.m. the main stage features Gail Lemli, jazz and contemporary music; the Zion Crusaders, gospel; and the King Baptist Choir, gospel. The program continues at 4:15 with Ron Miles; Reggae Posse; the presentation of the Louise Duncan Awards; the Cleo Parker Robinson Dance Company; a blues jam with Gorden Sims, Tilly Tolles, Ricky Earle and James Moore; and the United Ballet Africain de Senegal.

A fascinating feature of the festival is the African Village, which features arts and crafts of Africa in a stylized village setting. This arena will offer a performance and dance clinic by the Irepo African Dancers on Saturday. Sunday the United Ballet Africain de Senegal will hold a dance and drum clinic. Both days the African Village will present African fashion demonstrations and community drummers.

Other activities of the festival include storytelling for youth, storytelling in the seniors' pavilion and a poets' corner. Many kinds of food, beverages, art and craft items are for sale. Performances in City Park are

free. For information on the Black Arts Festival call 293-2559.

The Gardens' exhibit will be between the two major activity centers, near the entrance to the African Village, across from the main stage. Besides living examples of African plants, it will include a pictorial display of Gardens programs and educational children's activities. The DBG exhibit will be open from noon until 8 p.m. each day.



Inside:

*Membership
Soars
page 2*

*Iris, Daylily
Shows
page 3*

*Summer
Classes
pages 4-6*

*Botanical
Illustration
Classes
page 7*

*Coming up
page 8*

DBG Membership Up Dramatically

You're in good company. And the company is increasing dramatically. You are now one of over 9,200 members of Denver Botanic Gardens.

An aggressive membership acquisition campaign begun in early March has increased members' ranks 14.8 percent above the 1990 year-end total of 7,951. This compares with a 1990 twelve-month increase of 9.8 percent, itself the largest growth year in nearly a decade.

Chances are you have been helping this valuable trend. Many new members are recruited by friends and family who already are members. For information about giving Gardens memberships as gifts, call membership coordinator Syd Glick, 370-8029.

There are many ways you can help the Gardens grow. If you would like more information about volunteering for the many membership activities throughout the year, contact the Gardens' membership subcommittee chairman, Peg Patrick, through the membership office.

Industry Sponsors Flower Show at Grant-Humphreys

Colorado flower growers, suppliers and floral service organizations will sponsor a "Fourth of July Flower Festival" at the Grant-Humphreys Mansion, 770 Pennsylvania Street, July 2 to 4. The house will be decorated with floral displays created by over 20 professional designers, who will participate in a workshop conducted by Dutch floral designer and educator Dries Alberts.

The Tuesday, July 2, activity is a \$15 preview reception from 6 to 9 p.m. The house will be open to the public 9 a.m. to 5 p.m. on Wednesday and Thursday. Admission is \$2 for adults; proceeds go toward renovation and preservation of the historic Denver mansion.

For information call Pam Anderson, 321-7903 or Judy Shriver, 421-2058.

Tributes

In memory of Patricia Foster

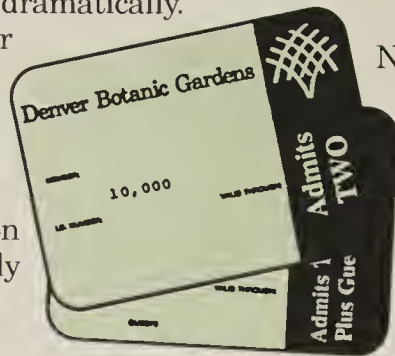
Mrs. William H. Foster
Mr. & Mrs. Benjamin Stapleton

In memory of Mary K. Knowles

Mrs. Charla Gates Cannon

In memory of Esther Garrett Small

Maggie & Jack Kellogg



Environmental Issues Face Ethnic Communities

The Colorado Department of Natural Resources will host the state's first conference on Environmental Issues in Ethnic Communities Saturday, July 13, at the Auraria Events Center in Denver. Denver Botanic Gardens is among more than 50 organizations representing ethnic groups, environmental concerns, businesses and government agencies that have signed on as co-sponsors.

The main topics to be covered are environmental issues in Colorado. Workshops will identify those environmental issues of special interest to ethnic communities and ways will be sought for members of ethnic communities to become involved in these issues. Governor Roy Romer is the luncheon speaker.

There is no cost for the conference or the luncheon. However, pre-registration is necessary. Activities will run from 8 a.m. to 3:30 p.m. For more information or to register, write Sandra Knight at the Department of Natural Resources, 1313 Sherman Street, Room 718, Denver, Colorado 80203, or call 866-3311.

DBG Members Visit Costa Rica in February

DBG members will have the opportunity to experience the exciting natural world of Costa Rica early next year. The members-only tour, organized for February 21 to March 1, will visit the central and western regions of the country, which were unaffected by the recent earthquakes that damaged large areas of the northeastern lowlands.

Tortuguero National Park's incredibly rich wildlife; the cultural sophistication of the "ever-spring" high altitude capital, San Jose; the excitement of Poas Volcano; the Monteverde cloud forest's flashing birds and fascinating epiphytes — all await the adventuresome DBG travelers who sign on for this enriching trip.

Hotel reservations have been made; space will be limited. Look for more information in upcoming issues of the *Green Thumb News*. In the meantime, if you'd like more enticing reasons to make your reservations, call Barbara Baldwin of the DBG tour subcommittee, 778-7292.

Kelaidis, Brunnett, Glick Receive Employee Awards

First recipients of the "Outstanding Employee Award," established in February by the DBG Board of Trustees, are Panayoti Kelaidis, curator of the Rock Alpine Garden; Don Brunnett, maintenance supervisor; and Syd Glick, membership coordinator. The monthly award recognizes outstanding individual or long-term achievements of unusual benefit to the Gardens. The award carries a \$50 prize.

Kelaidis was recognized in March for his suggestions for Denver Botanic Gardens' future horticultural role. Submitted for consideration in the Gardens' long-range planning, his observations were influential in the board's setting a course toward a "regional horticulture," with a focus on native Western plants and plants of similar habitats of the world.

Brunnett, the April recipient, was praised for work beyond the normal scope of his duties in the installation of a new computer system to manage the environmental controls of the DBG greenhouses. His redesign of circuits and structural elements and his oversight of the project contractor are estimated to have saved nearly 100 percent over the project's \$48,500 cost.

In May, Glick was awarded for the outstanding success of the Gardens' annual membership drive. With a 1991 goal of a 10-percent increase in memberships, her program increased the number of members by 14.8 percent in its first two months.

Green Thumb News Number 91-7 July 1991

Published monthly by
Denver Botanic Gardens
909 York Street
Denver, Colorado 80206-3799

Edited by Larry Latta, 370-8033

Deadline for the August issue: June 20

Subscription to this newsletter is a benefit of membership in Denver Botanic Gardens. For information please write the membership department at the above address or call 370-8029.

Denver Botanic Gardens and Chatfield Arboretum are established and maintained by Denver Botanic Gardens, Inc., for the people of the City and County of Denver and for the general public in cooperation with the Denver Parks and Recreation Department.

Denver Botanic Gardens is also grateful for funds from the Scientific and Cultural Facilities District (SCFD), which enable the Gardens to maintain its facilities better, expand services and enhance the quality of programs and exhibits.





Watercolor Show Set for 10 Days in July

The Colorado Watercolor Society will hold a show in John C. Mitchell II Hall Tuesday through Thursday, July 2 to 11. The exhibit will be open 9 a.m. to 4:45 p.m. each day, except Saturday, Sunday, Monday and both Wednesdays, when it will remain open until 8.

The exhibit is juried by Susan Arndt, Red Rocks Community College, and will feature new works by nearly 70 Colorado artists. Although collectors will find a wide range of floral subjects represented, the works will cover all conventional subjects.

Members' Picnic At Chatfield Arboretum

Western entertainment, cake and lemonade will add a down-home touch to the annual members' family picnic at Chatfield Arboretum Saturday, August 24. Plan to bring your family and a picnic supper to enjoy a pleasant late summer evening at the Arboretum.

If you haven't yet visited the Arboretum, this will be a beautiful chance to get acquainted with the wetlands, riparian and prairie habitats that make the arboretum the most interesting nature center along the Front Range. All areas are easily accessible by well-marked trails. The buildings of the historic Hildebrand Farm, the 1870s one-room Deer Creek School and the Polly Steele Nature Center will provide a pioneer backdrop to the evening.

Look for more information and a registration form in the August newsletter.

Dazzling Daylily Show at Gardens, July 27

A dazzling display of daylilies will light up John C. Mitchell II Hall Saturday afternoon, July 27. A daylily plant sale will accompany the show.

Sponsored by the Mile High Daylily Society of Denver, the event will display horticultural scapes and individual blossoms of modern daylily hybrids. Artistic arrangements will vie in several fantasy categories and selected seedlings from local hybridizers will compete for the American Hemerocallis Society Achievement Award.

The show and sale run from 1 to 4:45 p.m. DBG's collection will be in full bloom, offering you a chance to stroll among the Gardens' beautiful blossoms before or after you visit the show.

For more information and to enter flowers in the show, call Tetta Johnson, 688-6284.

Botanic '91 Artists Guild Show July 12-14

The Colorado Artists Guild celebrates its 63rd year during its annual art exhibit at the Gardens Wednesday, July 11, through Sunday, July 14. A free private reception, to which members of DBG are invited, is 5 p.m. Friday, July 12; call Gene Lowder, 733-9484, or Doris Arthur, 757-1847, for information on admission to the Gardens for the reception.

Works in many media will be shown at Botanic '91. Among the guild's 125 members are nationally known artists Kim English and John Lensicki. The show opens at 11 a.m. Thursday, but at 9 a.m. each day thereafter. It runs until 4:45 p.m. Thursday and Friday, until 8 p.m. Saturday and Sunday.

It's Planting Time: Colorado Grown Iris For Sale at Gardens

Just in time for Colorado planting, the local chapter of the American Iris Society will hold its annual rhizome sale at the Gardens Saturday, July 20. The sale will be outdoors just inside the front gate and will last from 9 a.m. until all rhizomes are sold.

Rhizomes offered will be only the finest and newest kinds. The plants will be freshly dug divisions from members' gardens, the Denver Botanic Gardens display at 1005 York Street and the American Iris Society's Region 20 display garden. The iris society members, as connoisseurs of the genus, will provide examples of the most modern hybrids; the DBG display garden will yield divisions of the finest tall German iris; and the Region 20 display iris are those whose public debuts date from 1989 or later.

Proceeds from the sale will be used by the American Iris Society and Denver Botanic Gardens to promote the culture and improvement of the iris.

For more information call co-chairmen Roy Krug and Jess Quintana, 237-7727.

Garden Writers Present Award to John, Jeri Cretti

John and Jeri Cretti, Colorado's Green Thumb Gardeners who have produced many radio and TV shows featuring the plants and planting of Denver Botanic Gardens, have been given the 1990 award of excellence by the Garden Writers' Association of America. This marks their third year of recognition by the prestigious organization for their gardening communication.

The Cretti's host the "Ask Dr. Green Thumb" radio talk show Saturday mornings on News Radio 85 KOA; John also has weekly gardening segments on KUSA-TV, Channel 9. Their programs provide accurate and reliable garden information to both amateur and seasoned gardeners, and are written with a "High Plains and Mountain" point of view.

Glass At the Gardens August 1-11

The Colorado Glass Arts Fellowship will mount its annual show at the Gardens August 1 to 11. Details will be in the next issue of the *Green Thumb News*.

Loretta Weiss, watercolorist of "Mindy's Bouquet," will be among the many artists represented at the July watercolor show.



Arranging Lessons with Fresh Flowers

(four sessions)

Mondays, July 1, 8, 15 & 22

9 a.m. to noon

Classroom C

Summer is the perfect time to learn how to make floral arrangements to complement a favorite spot in your home. You will learn how to select and cut fresh flowers and arrange them.

Please bring two containers (no glass or silver), clippers, scissors or knife, a large bucket with a handle for gathering flowers and two needle-point flower holders (available in the DBG gift shop). All other materials, including flowers, will be provided.

Instructor: Avalonne Kosanke is a master flower judge for the National Council of State Garden Clubs and has over 25 years of teaching experience.

Fee: \$55 members/\$60 nonmembers (includes \$7 for materials)

Limit: 15

Tundra Trip to Corona Pass

Sunday, July 7

8 a.m. to 4 p.m.

Visit one of the most spectacular passes in the Front Range. Observe tundra ecology and many different wildflowers as well as man's influence on this high mountain location. You will follow the abandoned railroad to the deserted hotel at the top of the pass. The abundant wildflowers found here include paintbrushes, miniature clovers, alpine avens, snow buttercups and a host of others.

Bring a lunch, rain gear and a sweater. Plant guides and a hand lens are useful if you have them.

Meet: promptly at 8 a.m. at the north-east parking lot of the rock cut, I-70 at Exit 259.

Instructor: Paul Kilburn, Ph.D. has taught botany and ecology in Colorado for many years.

Fee: \$5 members/\$5.50 nonmembers

Limit: 18

Alpine Ecology

(two sessions)

Wednesday, July 10, lecture

7 to 9 p.m.

Classroom C

Sunday, July 14, field trip

7 a.m. to 5 p.m.

The treeless tundra dominating the landscape above timberline is actually a kaleidoscope of 20 or more separate plant communities, each in its special ecological niche. The communities range from windswept fell fields har-

boring cushion plants such as moss campion and nailwort to wetlands of black sedges and marsh marigolds.

This course introduces you to the ecology of this widespread Colorado Rocky Mountain habitat. The lecture will prepare you for an all-day field trip to Hoosier Pass above Breckenridge.

Instructor: Paul Kilburn

Fee: \$15 members/\$16.50 nonmembers

Limit: 20

Nests Are for the Birds!

Thursday, July 11

6:30 to 9 p.m.

Classroom B

It is not too late to see birds, chicks and nests because many Colorado birds often have two or three clutches of eggs through the season.

You will learn nest identification, courtship behavior, chick rearing, tree cavity nests (such as woodpecker holes) versus conventional nests and colonial versus solitary nesters. Actual nests will be available for viewing.

Instructor: Tina Jones has birded extensively in the United States. She teaches bird behavior and natural history classes for DBG and for the Denver Museum of Natural History.

Fee: \$10 members/\$12 nonmembers

Limit: 25

Wildflower and Landscape Photography Lecture

Thursday, July 11

7 to 9:30 p.m.

Classroom C

Sharpen your sense of composition and photographic technique while learning the fine art of wildflower and landscape photography. This comprehensive and beautiful presentation is recommended to wildflower lovers as well as serious photographers. It will cover the following topics: finding flowers, selective gardening, plant protection equipment, lighting, backdrops, use of depths of field, filters, films, metering, composition and special effects.

This program is co-sponsored by the National Wildflower Research Center and DBG.

Instructor: John D. Smithers is the owner of DeHart Media, an award-winning firm in Austin, Texas. He also holds a masters degree in film from the University of Texas.

Fee: \$18 members/\$20 nonmembers

Limit: 60

Wildflower and Landscape Photography Lecture and Workshop

(five sessions in three days)

Thursday, July 11: 7 to 9:30 p.m.

Classroom C

Saturday, July 13: 6:30 to 11 a.m.

outside at DBG, and 6 to 9 p.m.

Classroom C

Sunday, July 14: 6:30 to 11 a.m.

Chatfield Arboretum, and 6 to 9 p.m.

Classroom C

Learn the fine art of wildflower and landscape photography through an evening lecture (described above) and a weekend workshop. On Saturday morning you will photograph flowers at the Gardens, then move out to Chatfield Arboretum for Sunday morning's "shoot out." Each evening you will return to DBG for a critique of your morning endeavors, providing an effective learning tool.

The following materials are required: one 35 mm camera with a macro lens; one tripod, preferably one that can be lowered close to the ground; and three rolls of either Ektachrome or Fujichrome 100 film. In addition, please bring these items if you have them: normal, ring-light or standard flash unit with remote sensor; 18-percent reflectant gray card; lens extension tubes or bellows; kneepads; small atomizer for spraying "dew" on flowers; polarizing and 81-A filters for your favorite lens; and a shutter release cable.

Please note that you should already have a good working knowledge of your camera.

The lecture and workshop are co-sponsored by the National Wildflower Research Center and DBG.

Instructor: John D. Smithers

Fee: \$130 members/\$150 nonmembers (includes lecture, two-day workshop and processing cost for film)

Limit: 15

Behind the Scenes Greenhouse Tours

**Section 1: Saturday, July 13
1 to 2 p.m.**

**Section II: Sunday, July 28
1 to 2 p.m.**

Please indicate your section on the registration form

Ever wonder what goes on behind the beautiful displays at DBG? This is your chance to view propagation facilities, the service greenhouses, and the orchid and bromeliad house — behind-the-scenes collections seldom accessible to the public.

Meet: main lobby

Tour Leaders: DBG greenhouse staff members

Fee: \$4.00

Limit: 15

A black and white photograph of a river valley. In the foreground, a bridge with a railing spans a river. The background shows a valley with trees and a small building on a hill. The sky is bright and cloudy.

Hudson River Valley Fall Foliage Tour

October 11–16, 1991

*Join your fellow Denver Botanic Gardens members
in a visit to the 17th century.*

*See one of America's most historic regions — in fabulous autumn color.
West Point ... Montgomery Place ... Hyde Park ... Culinary Institute
of America ... Secret Gardens ... Historic mansions ... Local experts ...*

*Full land price: \$940 Group air fare: \$298
(Cost is based on double occupancy. For single occupancy add \$270)*

*This Denver Botanic Gardens members' tour
is fully escorted by Barbara Baldwin, assisted
by Julia Secor.*



Hudson River Valley Fall Foliage Tour

October 11-16, 1991 • Itinerary Highlights

Friday, October 11

Morning United Airlines departure to LaGuardia Airport where we will be met by a deluxe mini-coach which will remain with us throughout our tour. After a visit to the famous Wave Hill Center for Environmental Studies, located in the Bronx, we will motor up the Hudson River to Tarrytown where we will check into the Hilton Hotel for a three night stay. This evening a private cocktail reception and dinner is planned with a featured speaker.

Saturday, October 12

The fascinating 1693 Phillipsburg Manor and Mills and Lyndhurst Mansion with its picturesque landscape, gardens and greenhouse are on today's schedule. Afternoon activities will conclude with a wine and cheese party at private Octagon House and restored gardens.

Sunday, October 13

Today's touring includes magnificent Boscobel where we will savor its spectacular interior and stroll its beautiful gardens, woods and orchards. On to West Point Military Academy for a private tour and a sumptuous brunch at the Thayer Hotel overlooking the river.

Monday, October 14

Sunnyside, the romantic estate of Washington Irving, is our first stop. Next we visit Manitoga, the woodland garden of designer Russel Wright who said "my goal is to bring to American culture an intimacy with nature." After touring Van Cortlandt Manor we will go upriver to Rhinebeck to check into the famous Beekman Arms for a two night stay. This outstanding Inn, built in 1766, is the oldest Landmark Inn in America.

Tuesday, October 15

Hyde Park, home of FDR, is our morning destination. A multi-course gourmet luncheon will be served to us at the world famous Culinary Institute of America. In the afternoon we visit Vanderbilt, the fabulous Beaux-Arts mansion of Cornelius Vanderbilt and the restored Italian gardens.

Wednesday, October 16

Impressive Montgomery Place with its magnificent home and grounds will be featured today. Before our departure from the Albany Airport we will tour Olana, the home of Hudson Valley School artist Frederick Church. Our United Airlines dinner flights return us to Denver mid evening.

The land price includes hotels, admissions, coach transportation, one dinner, lunch or brunch each day, morning coffee and "buns" at the Beekman Arms, bag handling, wine and cheese party, a pre-departure information evening, taxes and gratuities.

Space will be strictly limited to 24 persons. Sign up early! A \$250 deposit — refundable in full up to August 10 — will hold your place. For more information, call Barbara Baldwin, 778-7292, or Andrew Pierce, 370-8002.



Denver Botanic Gardens

Denver Botanic Gardens and Chatfield Arboretum are established and maintained by Denver Botanic Gardens, Inc., for the people of the City and County of Denver and for the general public in cooperation with the Denver Parks and Recreation Department. Denver Botanic Gardens is also grateful for funds from the Scientific & Cultural Facilities District (SCFD), which enable the Gardens to expand services and enhance the quality of programs and exhibits.

Please reserve _____ places for the Hudson River Valley Fall Foliage Tour, October 11-16, 1991.

A deposit check for _____ (\$250 per person) is enclosed.

Name _____ Member I.D. _____

Address _____ City _____ State _____ Zip _____

Phone _____ Spouse or roommates name _____

Single room ☐ yes ☐ no I prefer ☐ aisle ☐ window plane seat

Credit Card # (for airfare only) _____ ☐ AX ☐ MC ☐ VI Exp. date _____

United Mileage Plus number _____

Cost of tour:

\$940 Based on double occupancy

\$298 Group Airfare

\$270 Single supplement

Final payment due August 10, 1991. • Please make check payable to Denver Botanic Gardens.

Mail to Denver Botanic Gardens • Attn: Andrew Pierce • 909 York Street • Denver, CO 80206

Drawing from Nature

(six sessions)
Mondays, July 15, 22, 29
August 5, 12 & 19
9:30 a.m. to 12:30 p.m.
Classroom B

From living plants to still life settings, from realism to abstraction, learn to see, sketch and draw natural forms and designs and then translate your black and white studies into exciting color. You will receive instruction and demonstration in assorted media and subject matter.

Bring a large sketch pad, soft charcoal and drawing pencils to the first class.

Instructor: Oksana Ross, Ph.D., is an art historian and artist. She has taught at the University of Colorado at Denver, Metropolitan State College and Colorado Women’s College.

Fee: \$48 members/\$58 nonmembers
Limit: 20

Rainforest Conference for Teachers

Friday & Saturday, July 19 & 20
Denver Museum of Natural History

Denver Botanic Gardens sponsors this conference/workshop titled “Tropical Rainforests: A Disappearing Treasure” Friday and Saturday, July 19 and 20, at the Denver Museum of Natural History. The conference is designed to inform educators and resource specialists of tropical rainforest ecology and the causes and consequences of rainforest destruction. It also addresses possible solutions.

Call the Denver Museum of Natural History at 322-7009 for more information or registration.

Field Trip to Rocky Mountain National Park

Saturday, July 20
10 a.m. to 3 p.m.

Explore the rich woods surrounding two of the prettiest lakes in the park. You should find several native orchids, including the elusive purple lady’s slipper, *Cypripedium fasciculatum*. Bring your lunch and drinking water.

Leader: Dick Schwendinger is a popular field trip leader for the Gardens and is especially fond of wild orchids.

Meet: promptly at 10 a.m. at the Moraine Park visitor center. Please call the education department at 370-8020 if you need further directions.

Fee: \$5 members/\$5.50 nonmembers. Each car entering the park must purchase a daily user pass in addition to the field trip fee.

Limit: 15

Dry It. You’ll Like It.

(two sessions)
Tuesday, July 23, 30
9:30 to 11:30 a.m.
Classroom B

Dahlias, zinnias, roses and black-eyed susans are among the flowers whose beauty you will learn to preserve in silica gel. Students will select and dry garden and roadside flowers to use in winter arrangements.

Please bring a small bucket with a handle, scissors, clippers, wire-cutters and a three-pound coffee can with lid. All other materials, including flowers, will be provided.

Instructor: Avalonne Kosanke
Fee: \$35 members/\$37 nonmembers (includes \$20 for materials)
Limit: 15

Wildflower Weekend Paintbrushes and Penstemons on the Western Slope Saturday & Sunday, July 20 & 21

Senior horticultural advisor Andrew Pierce will lead a group of wildflower enthusiasts to choice botanical sites on an overnight trip.

A small, 18-passenger vehicle will leave the Gardens’ main parking lot promptly at 8 a.m. on Saturday and return the next day at 6 p.m. Hotel accommodations (on a double occupancy basis), two box lunches, refreshments and bus travel are included in the rate. Participants will provide their own Saturday dinners and Sunday breakfasts at local restaurants. The fee for members is \$150, nonmembers will pay \$160.

The first stop will be near Frisco for a short walk in the aspen woodlands. From there it is up Vail Pass and on to Shrine Pass for glorious displays of paintbrushes and penstemons. Spend the night in Vail.

Visit the Vail Alpine Garden and sidetrack up Ute Pass to see subalpine phlox, then return home via Loveland Pass. Here, on Colorado’s highest pass, you can walk easily among choice alpines at 12,000 feet.

Although the trip includes only short, leisurely walks, participants should be comfortable with high altitude exercise.

Wildflower Weekend Registration Form

Please return this form with your check to Denver Botanic Gardens by July 3

Wildflower Weekend • Denver Botanic Gardens • 909 York St. • Denver, CO 80206

Enclosed is \$_____ for _____ participants.

Registration: DBG members, \$150 per person. Total \$ _____

Nonmembers, \$160 per person. Total \$ _____

Registration fee covers transportation, hotel (double room) and two box lunches.

Name _____

Address _____

City _____ State _____ Zip _____

Daytime Phone _____ Evening Phone _____

Member ID Number (on top of address label) _____

Roommate’s name (if known) _____

☐ Male Roommate wanted ☐ Female Roommate wanted

☐ Smoking ☐ Nonsmoking ☐ Vegetarian

(We regret that no refunds will be made for cancellations unless a replacement is found.)

Field Trip to Boreas Pass Near Breckenridge

Saturday, July 27
1 to 4 p.m.

Boreas Pass was once a major stage route leading from Como, in South Park, to Breckenridge. Later, the narrow-gauge Denver, South Park and Pacific Railway was extended over the pass. It is now a well-maintained gravel and dirt road on the Breckenridge side. An easy walk enables you to see both montane and alpine wildflowers—spectacular scenery!

Leader: Dick Schwendinger

Meet: promptly at 1 p.m. in front of the Summit County Courthouse in Breckenridge.

Fee: \$5 members/\$5.50 nonmembers
Limit: 15

Class locations:

Classrooms A, B and C are at 1005 York Street, Denver.

The DBG Morrison Horticultural Demonstration Center is at 2320 East 11th Avenue, Denver.

Chatfield Arboretum is at 9201 South Carr Street, Littleton (south on Wadsworth Boulevard 0.3 mile past C-470, west onto Deer Creek Canyon Road).

Beginning Bonsai

(four sessions)

Thursdays, 7:30 to 9:30 p.m.

August 8

Classroom B

August 15, 22 & 29

Morrison Center

This introductory course will cover the history and culture of bonsai, as well as instruction on styling, training, potting and care of bonsai plants. Each student will take home a completed bonsai. All materials will be provided.

Instructors: Keith Jeppson is an experienced bonsai hobbyist of 18 years. Harold Sasaki is a commercial bonsai grower of 19 years.

Fee: \$56.50 members/\$62.50 nonmembers (includes \$22 for materials)

Limit: 15

Hunting Fascinating Fungi

(two sessions)

Thursday, August 15

7 to 9 p.m.

Saturday, August 17, field trip

9 a.m. to 2 p.m.

Visitor Center

Chatfield Arboretum

August is a great mushroom hunting time in Colorado. You will learn some of the locally common mushrooms.

The Thursday evening session covers identification of edible and poisonous mushrooms and their spore prints. Both fresh and dried specimens will be studied. Maps, field guides, equipment and field trip arrangements will also be discussed.

On Saturday meet at the Arboretum for a mushroom hunt to Burning Bear Campground. Carpooling expenses will be shared.

Instructor: Ken Noteman is a member of the Colorado Mycological Society and is an experienced mushroom hunter.

Fee: \$18 members/\$22 nonmembers

Limit: 12

Tallgrass Prairie Field Trip

Saturday, August 17

10 a.m. to 3 p.m.

Observe and sample a good stand of tallgrass prairie along Highway 93 between Golden and Boulder, above Ralston Reservoir. The dominant grasses are big bluestem, switch-grass, needle-and-thread and side oats gramma. Fall flowers will include several asters, blazing star and goldenrod.

Please bring a plant identification book and hand lens, if you have them, and your lunch.

Meet: promptly at 10 a.m., 3.3 miles north of Highway 58 (Golden) on Highway 93, at the dairy just north of 58th Avenue on the east side of the highway.

Instructor: Paul Kilburn

Fee: \$5 members/\$5.50 nonmembers

Limit: 20

Moonlight Hike At Chatfield Arboretum

Saturday, August 24

8 to 10 p.m.

Visitor Center

Chatfield Arboretum

With the full moon as backdrop, observe the evening activities of the wildlife as you walk the trails of the arboretum. At dusk mule deer are grazing and owls begin their nightly hunts. You may hear the "yip-yip-yip" of coyotes. Other night sounds may include the swooping dives of night-hawks and the high-pitched sirens of flying bats.

Instructor: Jim Trammell is arboretum naturalist.

Fee: \$4 members/\$5 nonmembers

Limit: 15

Cooking with Judith Fine-Sarchielli

(Please bring a small chef's knife, paring knife, apron and a cutting board if you wish to participate in the hands-on part of these classes.)

Instructor: An accomplished chef, caterer, food consultant and teacher, Judith Fine-Sarchielli lived in Italy for 15 years.

Fee for each class: \$16.50 members/\$20 nonmembers (includes \$4.50 for materials)

Limit: 12

Edible Flowers: Cooking with Art & Romance

Wednesday, July 10

5 to 9 p.m.

Kitchen next to DBG Library

Beautiful to see, lovely in aroma and even more delicious to consume, flowers are an exotic addition to your menu. Learn how roses, carnations, squash blossoms, nasturtiums and other flowers have a language all their own in the romance of cuisine. You will also savor a unique and exotic rose dessert omelette made with delicate mixed rose petals.

Cooking with Herbs & Spices

Saturday, July 13

9:30 a.m. to noon

Morrison Center

Learn to make late-summer herbal treats from Tuscany. These recipes make delightful, romantic and personalized gifts. The instructor will create a sample gift basket of herbed and spiced oils and vinegars, cheeses and butters. Each student will make his or her own herbal cheese and receive recipes for future use.

Classic Tuscan Summer Soups

Saturday, August 3

9:30 a.m. to noon

Morrison Center

Learn the cooling soups that have kept Northern Italians delighted at parties and dinnertime during the warmest season. *Pappa di pomodoro*, *straciatella* and *minestrina* are refreshing, light and simple-to-prepare soups that make a summer meal a delicious celebration.

Chiles International

Saturday, August 17

9:30 a.m. to noon

Morrison Center

Sarchielli will show her knowledge of exotic chile peppers and recipes from South America, North Africa, Mexico, Thailand, China, India and Europe by including her own concoctions such as Far East of the border rice noodle soup, pineapple lime chile salsa and Florentine pepper oil. Bring your favorite recipes to share. Also bring rubber gloves for handling these fiery peppers safely.

Registration

Class fees must be paid in advance by credit card, check or money order made out to Denver Botanic Gardens. Phone registration will be accepted for credit card payment only. Space in many classes is limited. You will be enrolled in class the day your payment is received. All classes are subject to a minimum of ten students. For further information, please call 370-8020.

Registration Form for Classes, Field Trips and Lectures

Enclosed is \$ _____ for the following classes:

Name and section of class(es) _____

Name _____

Member of Denver Botanic Gardens ☐ Yes ☐ No

Member ID _____

(on top line of newsletter address label)

Address _____

City _____ Zip code _____

Daytime Phone _____ Evening Phone _____

☐ Cash ☐ Check ☐ VISA ☐ MC

_____ Exp. _____

Signature _____

The Denver Botanic Gardens School of Botanical Illustration

Accredited by the University of Colorado

The School of Botanical Illustration offers a series of courses providing a comprehensive education in the scientific illustration of plants. You will have the opportunity to start with fundamental principles and drawing skills and systematically learn the techniques of many media, as well as focus on design and composition.

The classes are organized to develop skills sequentially. Students wishing to start in other than Beginning Drawing must have permission from the instructors, should space be available.

After successfully finishing the six courses, you will receive a certificate of completion. The School of Botanical Illustration is open to amateur, professional and student artists. You may choose to take courses without receiving college credit.

One college credit hour will be awarded for each pair of classes completed, either I and II, III and IV, or V and VI.

Classes are graded and homework is required for students seeking college credit. Questions, including those about eligibility to enter above the beginning level, should be directed to the education department, 370-8020.

I. Beginning Botanical Drawing

(six sessions)

Tuesdays, Sept. 3, 10, 17, 24, October 1 & 8

Section I: 9:30 to 11:30 a.m.

Section II: 12:30 to 2:30 p.m.

Morrison Center

Learn the basics of representational drawing using fresh flower specimens. This class stresses careful observation, with emphasis on perspective and shading with pencil. This is an ideal course for the beginner or an excellent refresher course.

Fee: \$50 members/\$60 nonmembers for non-credit students. Fee for college credit is \$125 for Parts I and II.

II. Drawing Plants in Color

(six sessions)

Tuesday, October 15, 22, 29, November 5, 12 & 19

Section I: 9:30 to 11:30 a.m.

Section II: 12:30 to 2:30 p.m.

Morrison Center

You will begin to work in colored pencil, refining your skills to accurately and realistically produce renderings of plants. The emphasis is on proper technique to achieve highlights, depth and texture.

Fee: \$50 members/\$60 nonmembers for non-credit students. Fee for college credit is \$125 for Parts I and II.

III. Beginning Botanical Watercolors

(six sessions)

Tuesdays, December 3, 10, 17, January 7, 14 & 21

Skip December 24 and 31

Section I: 9:30 to 11:30 a.m.

Section II: 12:30 to 2:30 p.m.

Morrison Center

This class is an introduction to watercolor theory, color mixing and brush techniques for botanical illustration. You will experiment with washes and drybrush techniques in transparent and opaque, and use watercolor and colored pencils to build accurate renderings of plants and flowers.

Fee: \$50 members/\$60 nonmembers for non-credit students. Fee for college credit is \$125 for Parts III and IV.

IV. Drawing Plants for Publication

(six sessions)

Tuesdays, January 28, February 4, 11, 18, 25 & March 3

Section I: 9:30 to 11:30 a.m.

Section II: 12:30 to 2:30 p.m.

Morrison Center

You will apply the skills learned in previous courses to draw plants for publication. Techniques include pen and ink, scratchboard, paste-up, layout, overlays and corrections. Students will learn to prepare illustrations for reduction and enlargement and learn lettering and printing techniques.

Fee: \$50 members/\$60 nonmembers for non-credit students. Fee for college credit is \$125 for Parts III and IV.

V. Botanical Illustration, Mixed Media

(six sessions)

Tuesdays, March 10, 24, 31, April 7, 14 & 21

Skip March 17

Section I: 9:30 to 11:30 a.m.

Section II: 12:30 to 2:30 p.m.

Morrison Center

You will continue to work with the techniques already described, along with media such as pastels and acrylics, to create a portfolio of botanical illustrations in color. The emphasis of this class is on accuracy, personal development and refinement, as well as proper matting and presentation of works.

Fee: \$50 members/\$60 nonmembers for non-credit students. Fee for college credit is \$125 for Parts V and VI.



VI. Advanced Botanical Illustration

(six sessions)

Tuesdays, April 28, May 5, 12, 19, 26 & June 2

Section I: 9:30 to 11:30 a.m.

Section II: 12:30 to 2:30 p.m.

Morrison Center

You will continue to work in your choice of media and will be expected to produce a portfolio of the highest quality. The emphasis of the course is on personal growth and individualized instruction.

Fee: \$50 members/\$60 nonmembers for non-credit students. Fee for college credit is \$125 for Parts V and VI.

Instructors: Rob Proctor, author and illustrator, and Angela Overy, designer and illustrator; coordinate this program and teach most of the classes. Guest instructors Paula Nicholas, Shari Jones, Michael Eagleton and Carolyn Crawford broaden the curriculum by teaching special skills.

Supplies: Specific supplies are required for each class. A list will be sent with your class confirmation. Additional supplies will be recommended by instructors throughout courses.

JULY

Coming Up

Classes are in italics. Asterisk* indicates the first meeting of a class with more than one session.

July

- 1 ** Arranging Lessons with Fresh Flowers*
- 2-11 Colorado Watercolor Society Exhibition
- 6 & 7 *Wildflower Weekend Field Trip*
- 7 *Tundra Trip to Corona Pass*
- 9 The Great American Band-Age Young Audiences Concert
- 10 ** Alpine Ecology*
- 10 *Edible Flowers: Cooking with Art & Romance*
- 11 Beausoleil Garden Concert
- 11 *Nests are for the Birds!*
- 11 *Wildflower & Landscape Photography Lecture*
- 11 ** Wildflower & Landscape Photography Lecture & Workshop*
- 13 *Behind the Scenes Greenhouse Tours*
- 13 *Cooking with Herbs & Flowers*
- 15 ** Drawing from Nature*
- 18 Opera a la Carte Garden Concert
- 19 Rainforest Conference for Teachers
- 20 American Iris Society Iris Rhizome Sale
- 20 *Field Trip to Rocky Mountain National Park*
- 20 & 21 *Wildflower Weekend Field Trip*
- 23 ** Dry It. You'll Like It.*
- 23 Ti-Jean and His Brother Young Audiences Concert
- 26 Shostakovich String Quartet Garden Concert
- 27 Colorado Daylily Show & Sale
- 27 *Field Trip to Boreas Pass*
- 28 *Behind the Scenes Greenhouse Tours*



Helen Fowler Library Open Until 8 p.m. Every Wednesday Through Labor Day

Denver Botanic Gardens, Inc.

909 York Street
Denver, Colorado 80206-3799
303-331-4000

Address correction requested

TIME VALUE

July 1991



Non Profit Org.
U.S. Postage
PAID
Permit No. 205
Denver, CO

Plant
Societies
at DBG

Many plant and horticultural societies meet regularly at DBG. For their meeting times, or to contact a representative of any group in which you are interested, call Denver Botanic Gardens during business hours: 331-4000.



Printed on Recycled Paper



NEWS

Denver Botanic Gardens
August 1991
Number 91-8

“Glass at the Gardens” Sparkles Among the Greenery

“Glass at the Gardens,” the annual competition and exhibition by the Glass Artists Fellowship, returns to DBG August 1 to 11. This sparkling show, which overflows from John C. Mitchell II Hall into the Lobby Court, features glass art works in many genres set among the greenery of the Gardens’ plants. It is the brightest, largest, most colorful art show in our summer schedule.

This year’s exhibition offers several new features. You can vote for your favorite piece to receive a people’s choice award. Kids, too, can vote on a young people’s choice award. Also, a stained glass coloring book will be available for the younger set.

More entries than ever before are expected in all main categories. Open competition will be in panels, three-dimensional works, hot glass, carved glass and flat pieces, which includes stained glass works. Although many pieces will evidence ties to traditional leaded stained glass, the show is known for the innovation — both in technique and in materials — of the fellowship artists.

You are invited to join one of the many tours of the show led by attending artists and see demonstrations of important glassworking techniques that will be staged during the show. You can watch artists Gary Vigen painting glass, Connie Sanchez working hot glass with her micro-kiln, Debbie Carlson spinning and blowing molten glass from a “glory hole” or Wiley Smith sand-blasting glass.

“Glass at the Gardens” will be open during regular DBG summer hours, including evenings on Monday, Friday, Saturday and Sunday. For more information call 935-5489.

KCFR Series Has International Flavor In Five August Concerts

The summer concert season continues its survey of current international hit musical groups. Five concerts in August bring the Gardens’ series — acknowledged to be the most sophisticated summer series in the region — to a close.

Thursday, August 1, Bill Douglas with the Boulder Bassoon Band takes over the amphitheater with brilliant music making and witty commentary. They are long-time favorites of DBG concertgoers and, besides a good dose of silliness, they will serve up an evening of great music from Bach to bluegrass. Tickets, if available, will be for sale at the Gardens.

The lilting rhythms of Venezuela will swing through the Gardens Friday, August 9. The group is Gurrufio, a chamber orchestra that explores the musical forms of northeastern Andes with the precision of the finest European ensembles. You may buy tickets at the Gardens’ special events office.

Obo Addy and Kukrudu brings contemporary music, strong in both heritage and innovation, of Ghanaian



Africa. This wonderful stew begins to simmer August 15. Mail order deadline is August 2. The Claude Bolling Big Band brings swing with a Parisian accent to the Gardens Friday, August 23. Bolling’s crossover music is familiar to American audiences through his best selling albums. Mail order before August 9.

The final concert of the summer is by one of the truly great American vocalists, Betty Carter. Her distinctive jazz stylings and velvety voice will thrill our audience on August 29. Mail order deadline is August 16.

For ticket information call 370-8015.

All styles of glass arts will be featured at “Glass at the Gardens.”

Inside:

Interns Arrive
page 2

Report Ready
page 3

Festival & Fair
page 4

Arboretum Party
page 5

Classes
pages 6-9

The 1991 DBG summer interns (from left): Micki McNaughton, Polly Huck, Lyn Harris, Denise Carder, Ginnie Duran, Janice Weber, Ginny Skeel, Lisa MacFarlane and Steve Bousquin.



In mid-June nine college students arrived at the Gardens to begin a summer of educational enrichment and hands-on experience as DBG interns in applied horticulture. Their internships provide them the opportunity to work alongside the Garden's professional gardening staff, learning the daily operation of a public display garden. The interns also attend special lectures, field trips and demonstrations highlighting Front Range horticulture.

The two 1991 Alice Mann Owen Internships in Applied Horticulture were awarded to Lyn Harris and Janice Weber. Lyn is a student at the University of Northern Colorado and plans to graduate in 1993 with a master's degree in biology. Her future goals include teaching and sharing her interest in plant-environment interactions. Janice is an avid gardener and will graduate with an associate degree in applied science in urban horticulture from Front Range Community College in 1992. Following graduation, she hopes to attend Colorado State University to study floraculture.

The Clara Van Schaak Phipps Internship in Applied Horticulture was awarded this year to Denise Carder, who is pursuing a bachelor of science degree in horticulture at Oregon State University. Her goals are to serve in a managerial capacity at an urban garden or to design zoo landscapes. Endowment of her internship was by Mr. and Mrs. Allan R. Phipps.

Other internships are partially underwritten by gifts from the Denver Botanic Guild, the Associates of Denver Botanic Gardens, the Men's Garden Club of Denver and others.

Intern Steve Bosquin is currently studying biology at the University of Colorado at Denver. He plans to enter graduate school in environmental sciences in 1992.

Ginnie Duran expects to graduate from the University of Colorado in 1993 with a double baccalaureate degree in environmental population and organismic biology, and in environmental conservation. She has extensive gardening experience and wants to further develop her xeriscaping ideas.

Polly Huck is currently pursuing a bachelor of science degree in environmental geography, with a minor in botany, at Ohio University. She plans to work with the Tropical Conservation Foundation at the agro-forestry research center in Belize.

Lisa MacFarlane attends Montana State University and will graduate this year with a B.S. in horticulture-landscape design. She was employed as a renovation planner and vegetation coordinator for a Montana firm, where she gained experience in landscape design, and in collecting and recording vegetation data for reclamation purposes.

Roxanne "Micki" McNaughton completed a ten-week Master Gardener course at Portland Community College, where she will graduate with an associate degree in landscape technology. Micki plans to gain work experience to reinforce her "book learning" and is interested in DBG's community gardening program.

Ginny Skeel is pursuing a bachelor of science degree in ornamental horticulture at the University of Illinois. She is interested in landscape design and the nursery industry and hopes to work in the western United States.

Each year the Gardens chooses seven to ten botany and horticulture students from the Rocky Mountain region. During the summer they will gain practical gardening skills, study different ecological sites and meet area horticulturists. Their DBG experience complements their classroom work.

Tributes

In honor of Judy Byrne

Joan Byrne

In memory of Eleanor E. Cain

Don & Lynn Reigel

In memory of Mrs. Samuel B. (Marjorie) Childs

Mrs. Richard Davis
Mary Belle M. Grant
Mr. & Mrs. J. Ramsay Harris
Dr. & Mrs. Thomas Jacques
Mrs. Stanley H. Johnson
Mrs. Walter K. Koch
Virginia & Channing Lilly
Mr. & Mrs. Gilbert Y. Marchand
J. Churchill Owen
R. T. Person
Clara & Allan Phipps
Mr. & Mrs. F. George Robinson
Mrs. Theodore Washburne
Anne H. Weckbaugh

In memory of Helen Clark

Morning Belles Garden Club

In memory of Theodore Lang

Ms. E. Sydney Glick

In memory of Charles Maierhofer

Mr. & Mrs. E. A. Jubela
The Ted Washburne Family

In memory of Catherine "Kate" Mantooth

Avalon A. Simonds

In memory of Esther Garrett Small

Doris & Ralph Lamberson
Maxine & Mansell Piper
Ona E. Reid

In memory of Frances E. Tennant

Mrs. Theron Ackerman
Maggie & Jack Kellogg
Mr. & Mrs. Richard C. Yates

Green Thumb News Number 91-8 August 1991

Published monthly by
Denver Botanic Gardens
909 York Street
Denver, Colorado 80206-3799

Edited by Larry Latta, 370-8033

Deadline for September issue: July 20

Subscription to this newsletter is a benefit of membership in Denver Botanic Gardens. For information please write the membership department at the above address or call 370-8029, 370-8032 TDD.

Denver Botanic Gardens and Chatfield Arboretum are established and maintained by Denver Botanic Gardens, Inc., for the people of the City and County of Denver and for the general public in cooperation with the Denver Parks and Recreation Department.

Denver Botanic Gardens is also grateful for funds from the Scientific and Cultural Facilities District (SCFD), which enable the Gardens to expand services and enhance the quality of programs and exhibits.



Accredited by the
American Association
of Museums

Learn and Share as a Conservatory Guide

Nothing is as satisfying as learning something new — then sharing your knowledge and experience with someone else. This fall you have the opportunity to do just that by taking a guide training course to help our visitors enjoy and understand the plants in DBG's Boettcher Memorial Conservatory.

The next conservatory guide training course convenes in Classroom A from 10 a.m. to noon Tuesday, September 17 and on Tuesdays thereafter through November 19. Limited to only 25 students, the ten weeks of training will be under the direction of Peg Hayward, long-time guide and a consulting editor of the current DBG conservatory guidebook. Instructors for individual subjects are DBG staff members and experienced volunteers.

You will receive instruction both in the classroom and among the plants in the conservatory, where you will learn not only the natural history and botany of individual plants and their families, but how to work comfortably with groups of visitors of all ages.

The \$25 fee for this training course is refundable upon request after you've volunteered just 40 hours of service as a guide. In addition, all volunteers of the Gardens who accumulate 40 hours of service are eligible to take any class offered by the education department, free of charge except for any applicable materials fees.

Volunteers of Denver Botanic Gardens need not be members of the Gardens to contribute their time. How about asking your best friend or neighbor to join you in learning to be a DBG conservatory guide this fall? For more information about this activity and how you can sign up, call the education department, 370-8020.

Fete des Fleurs Celebrates Gardens' 40th Anniversary

A gala black tie evening September 6 will be the pinnacle event in the celebration of the Gardens' fortieth anniversary. The elegant affair will feature dinner and dancing outdoors among the Gardens' flowers and foliage and, for its theme, will honor all former presidents of the Gardens' board of trustees.

Dubbed *Fete des Fleurs*, it is one of the year's major fund-raisers for the Gardens. The volunteer committee staging the event is chaired by Mrs. Kenneth (Joan) Egan and Mrs. James (Carol) Schmidt and attendance, at \$175 per person, is by invitation.

DBG 1990 Annual Report Shows Stability, Unveils New City Contract, New Mission

The Denver Botanic Gardens 1990 Annual Report unveils a new contract between Denver Botanic Gardens Foundation and the City of Denver and a new statement of the Gardens' mission. It also points to a stabilization and strengthening of the Gardens' infrastructure and reviews the year's other accomplishments.

President of the Board of Trustees Beatrice Taplin, reporting on her final year in office, notes the most important event of the year was the negotiation of a new contract between the Foundation and the City. In general, the document gives greater autonomy to the Foundation while maintaining the Foundation's stewardship of the facilities and displays at Chatfield Arboretum and Denver Botanic Gardens for the people of the City and County of Denver.

Bruce D. Alexander, interim executive director of the Gardens, points up the strategic planning process begun by the board and staff. The Gardens will be guided by the strategic plan for decades to come. It renews the Gardens' commitment to conservation of native plant species and leadership in establishing a regional horticulture. Also reported is the extensive staff reorganization and recruitment in 1990 which will stabilize the Gardens' organization in preparation for the executive director who will be recruited in 1991 and in preparation for carrying out the ambitious strategic plan.

Some of the activities highlighted by the report, many of them supported by funds from the Scientific and Cultural Facilities District, are the Gardens' ongoing efforts to make its facilities and programs more accessible to persons with handicaps, the successful Celia Thaxter Garden display and the opening of Chatfield Arboretum.

The complete DBG 1990 Annual Report is available to members upon request. Call 370-8033 or come into the Carriage House at 909 York Street to get your copy.

Intrepid Research Associate Is Employee Of the Month

Carol Dawson, research associate, is June employee of the month. Carol was chosen for her outstanding, often dangerous, work for the Center for Plant Conservation, which takes her into the wildest parts of the West searching for endangered and rare plants. Carol's knowledge, organizational skills and dedication to the project have made a significant contribution to the Gardens' mission. Congratulations, Carol!



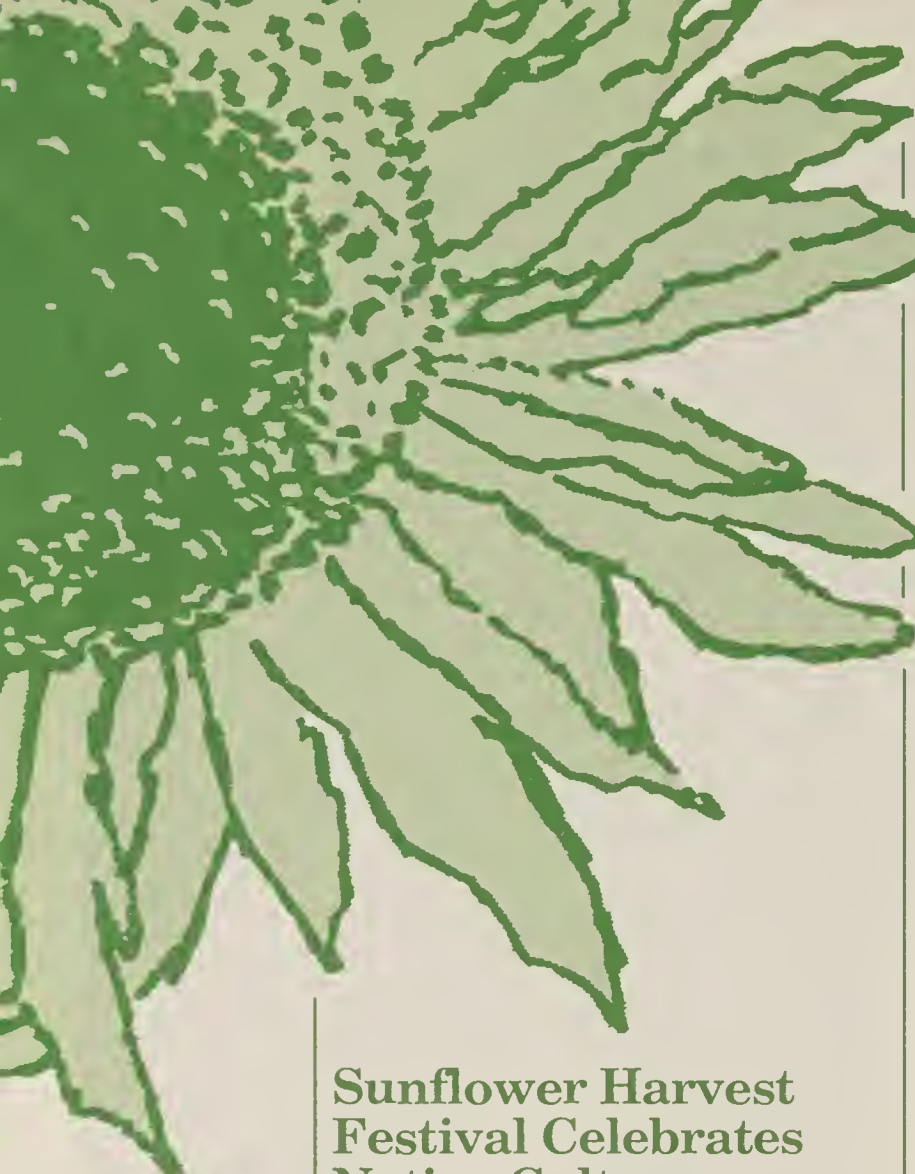
Gleanings

From *American Forests* magazine, October, 1990: A discussion of conflicting strategies in the Pacific Northwest, in an editorial, "Untying the Old-Growth Gordian Knot," posits, "It is not acceptable, in terms of the national forests, to look upon old-growth simply as a convenient and available timber supply to be liquidated in a few decades while second-growth forests mature to merchantable age. The public expects a different management strategy on the national forests and a broader set of objectives than economic factors alone will produce."

From *American Forests* magazine, October, 1990: "As much as 50 percent of Vietnam's mangrove forests were killed by military spraying." Adding to the destruction was unmanaged harvesting for poles, fuelwood and charcoal. "As much as 90 percent of the population relies on wood for cooking and heating."

From *Nature Conservancy* magazine, May/June 1991: "Native tallgrass prairie is perhaps the most diminished of all North America's natural landscapes. Though it once carpeted 142 million acres of our continent's heartland, it is now found mostly in scraps and fragmentary railroad rights-of-way and occupies a mere 10 percent of its original range."

The Celia Thaxter Garden, shown here in the work of artist Gayle Crites, is one of the year's success stories covered in the 1990 DBG annual report.



Sunflower Harvest Festival Celebrates Native Cultures

Denver Botanic Gardens will host an American Indian Sunflower Harvest Festival Saturday and Sunday, August 24 and 25. Cultural practices developed around native plants by Southwestern Native Americans will be highlighted. All activities are conducted by Native Americans.

Saturday you can witness the erection of a tipi and enjoy a family hour of Native American stories and their meanings. Besides the open activities, the DBG education department will offer classes on the traditional uses of plants, Paiute basketry, and a cooking class where participants will learn to make Indian fry bread. Sunday begins with a ceremonial prayer and blessing by John Emhoolah (Kiowa). A lecture on Native American plants is followed by a performance by the Eagle Plume Singers and Dance Group.

A sand painting demonstration by Mitchell Silas (Navajo) will depict the Pollen Boy, the Sun and the four sacred Navajo plants. You will also have an opportunity to observe Navajo weaver Emma Yazzie and learn about the use of plant dyes.

Most activities will take place in or near the new display garden "Traditional Plants of Our Southwest Native Peoples," located near the Rock Alpine Garden. Members will be receiving more information on the classes and festival events by mail. These activities are supported by funds from the Scientific and Cultural Facilities District.

Mushroom Fair A Family Affair

Back by popular demand is the annual Mushroom Fair. After a year's hiatus our friends in the Colorado Mycological Society are planning a reprise of the popular fair, their 15th, from 11 a.m. to 5 p.m. Sunday, August 18, in John C. Mitchell II Hall. The day before the fair society members will fan out over the Front Range and Eastern Slope to collect specimens to display at the fair.

This is your chance to bring in those mushrooms that have popped up in your yard or neighborhood and find out what they are. Even better, you'll find out if you have the beginnings of a delicious dinner. At the mushroom fair you'll learn how to select, preserve and prepare tasty mushrooms you can't buy in any store. World-reknowned mycologist Dr. Harry Thiers of San Francisco State University will return again this year to identify fungi collected by you and members of the society. In addition, you'll be able to see several hundred kinds of mushrooms found in Colorado, many of them edible and free for the picking.

If you're thinking of learning more about fungi, this year's Mushroom Fair is an excellent start. The Colorado Mycological Society is an excellent source of expert knowledge and guidance. With mushroom hunting forays planned throughout the season you may wish to join. You'll find new friends willing to help as you explore a whole new world at your feet.

Admission to the Mushroom Fair is covered in the regular admission to the Gardens. DBG members, of course, enter free. Bring those "mystery mushrooms" and bring your children. They're sure to enjoy the interesting exhibits. And you'll enjoy looking through the mushroom arts and crafts and the many mushroom field guides for sale.

For more information call Wayne Harrison, 832-0115/940-9411, or Marilyn Shaw, 377-1278.

Men's Garden Club Produce Sale Sept. 7

Fresh produce and plants will be for sale at the Gardens Saturday, September 7. The Men's Garden Club of Denver will hold its annual sale in the parking lot of Botanic Gardens House, 909 York Street. No admission to the Gardens is required to attend.

Greenhouse Grower, DBG Hold Workshops On Perennial Plants

Amateur and professional perennial plant enthusiasts will attend a workshop at the Gardens August 23 to 25, sponsored by Denver Botanic Gardens and the Colorado Greenhouse Growers Association. The workshop sessions will be conducted by DBG staff members, local industry leaders and other gardening experts.

Registration Friday evening, August 23, is followed by a walk in the Gardens and a presentation by DBG Rock Alpine Garden curator Panayoti Kelaidis. Saturday features talks by ethnobotanical herbalists Tammi Morgan and Amy McKenzie, garden writers Lauren Springer and Rob Proctor, garden designer Bob Howard, DBG staffers Andrew Pierce and Sandy Snyder and DBG volunteer Lainie Jackson, who has been consulted on the design of several of the DBG gardens. Sunday the workshop participants will have their choice of tours through DBG gardens and other gardens around Denver which show excellent examples of perennial gardening.

The \$30 registration fee covers workshop sessions, lunches, breaks and the Sunday tours. For more information call 427-8132.

"Palace Purple" Perennial of the Year

The Perennial Plant Association, a national professional association interested in disseminating information on the use and care of perennials, has named *Heuchera micrantha* 'Palace Purple' the perennial "plant of the year." Although its taxonomy is in some doubt — it may also be a selection of *H. villosa* or *H. americana* — 'Palace Purple' is a stunning foliage addition to almost any landscape.

A low-growing plant, it forms a 12-inch spherical mound of coppery purple. Its flowers are not its strong feature, being much less showy than the more common coral bells, *H. sanguinea*, but its brilliant, nearly metallic, maple shaped leaves makes it perfect as a focal point among other perennials, especially grasses.

Perfectly hardy, plants of 'Palace Purple' have been growing for years in the DBG Rock Alpine Garden. A large sweep of them also greets visitors just inside the York Street entrance. Amenable to nearly any soil, they grow most beautifully in light shade where they receive about average watering.





DBG Members' Day at Chatfield Arboretum Reservation Form

Enjoy Nature Trails • Guided Tours • Entertainment by Calico & Boots

Please Bring a Picnic Supper • Folding Chairs or a Blanket

Sorry, no pets allowed.

This members-only introduction to Chatfield Arboretum is limited to the first 300 to respond.

Reservations are for _____ adults (\$2.50 each), _____ children under 16 (free).

Enclosed is a check for \$_____ payable to Denver Botanic Gardens

Charge to my ☐ VISA ☐ Mastercard Sig. _____

_____ Exp. date _____

Name _____

Membership # _____

Address _____

City _____ State _____ Zip _____

Mail reservation postmarked by August 15 to:

Members' Day at Chatfield Arboretum • Denver Botanic Gardens
909 York Street • Denver, CO 80206

You will receive a postcard/admission ticket confirming your reservation.

DBG Celebrates Members' Day at Chatfield Arboretum August 24

Summer festivities are in store for DBG members and their guests at the annual Chatfield Arboretum picnic from 4 to 8 p.m. Saturday, August 24. You can enjoy folk dances and hay rides; tour native trails and the wetlands or study the historic farm buildings. They're all part of the fun for families to share.

Calico and Boots, folk dancers, will entertain with traditional and authentic styles of square, round and contra dance. Graduates of the Lloyd Shaw Cheyenne Mountain Dancers, they brought their natural style to the University of Colorado in 1946.

You can stroll the Arboretum on your own or enjoy guided tours. Wildlife abounds in the sanctuary of the Arboretum.

Deer can be seen on most days and, to astute observers, owl fledglings may be visible. Many other varieties of birds including waterfowl can be seen or heard. You can study the xeriscaping under way at the nature center and the native plants growing near the 1870s schoolhouse. Thousands of pumpkin and corn plants are growing for the popular Pumpkin Festival in October.

Plan to bring a picnic supper, a blanket or folding chairs, and enjoy a pleasant evening at the Arboretum. The big barbeque grill will be fired up

and ready for your use. Cake, lemonade and iced tea will be served. Make a reservation for your family and guests by sending in the registration form (above) before August 15. A confirmation card will be mailed to you; it is your ticket to the picnic.

Chatfield Arboretum is located at 9201 South Carr Street, Littleton (south on Wadsworth Boulevard 0.3 mile past C-470, west onto Deer Creek Canyon Road).

The wetlands at Chatfield Arboretum offer exciting glimpses of wildlife.

Correction:
Chatfield Members' Party
Saturday, August 24



DBG Members' Day at Chatfield Arboretum Reservation Form

Enjoy Nature Trails • Guided Tours • Entertainment by Calico & Boots

Please Bring a Picnic Supper • Folding Chairs or a Blanket

Sorry, no pets allowed.

This members-only introduction to Chatfield Arboretum is limited to the first 300 to respond.

Reservations are for _____ adults (\$2.50 each), _____ children under 16 (free).

Enclosed is a check for \$_____ payable to Denver Botanic Gardens

Charge to my ☐ VISA ☐ Mastercard Sig. _____

_____ Exp. date _____

Name _____

Membership # _____

Address _____

City _____ State _____ Zip _____

Mail reservation postmarked by August 15 to:

Members' Day at Chatfield Arboretum • Denver Botanic Gardens
909 York Street • Denver, CO 80206

You will receive a postcard/admission ticket confirming your reservation.

DBG Celebrates Members' Day at Chatfield Arboretum August 24

Summer festivities are in store for DBG members and their guests at the annual Chatfield Arboretum picnic from 4 to 8 p.m. Wednesday, August 24. You can enjoy folk dances and hay rides; tour native trails and the wetlands or study the historic farm buildings. They're all part of the fun for families to share.

Calico and Boots, folk dancers, will entertain with traditional and authentic styles of square, round and contra dance. Graduates of the Lloyd Shaw Cheyenne Mountain Dancers, they brought their natural style to the University of Colorado in 1946.

You can stroll the Arboretum on your own or enjoy guided tours. Wildlife abounds in the sanctuary of the Arboretum.

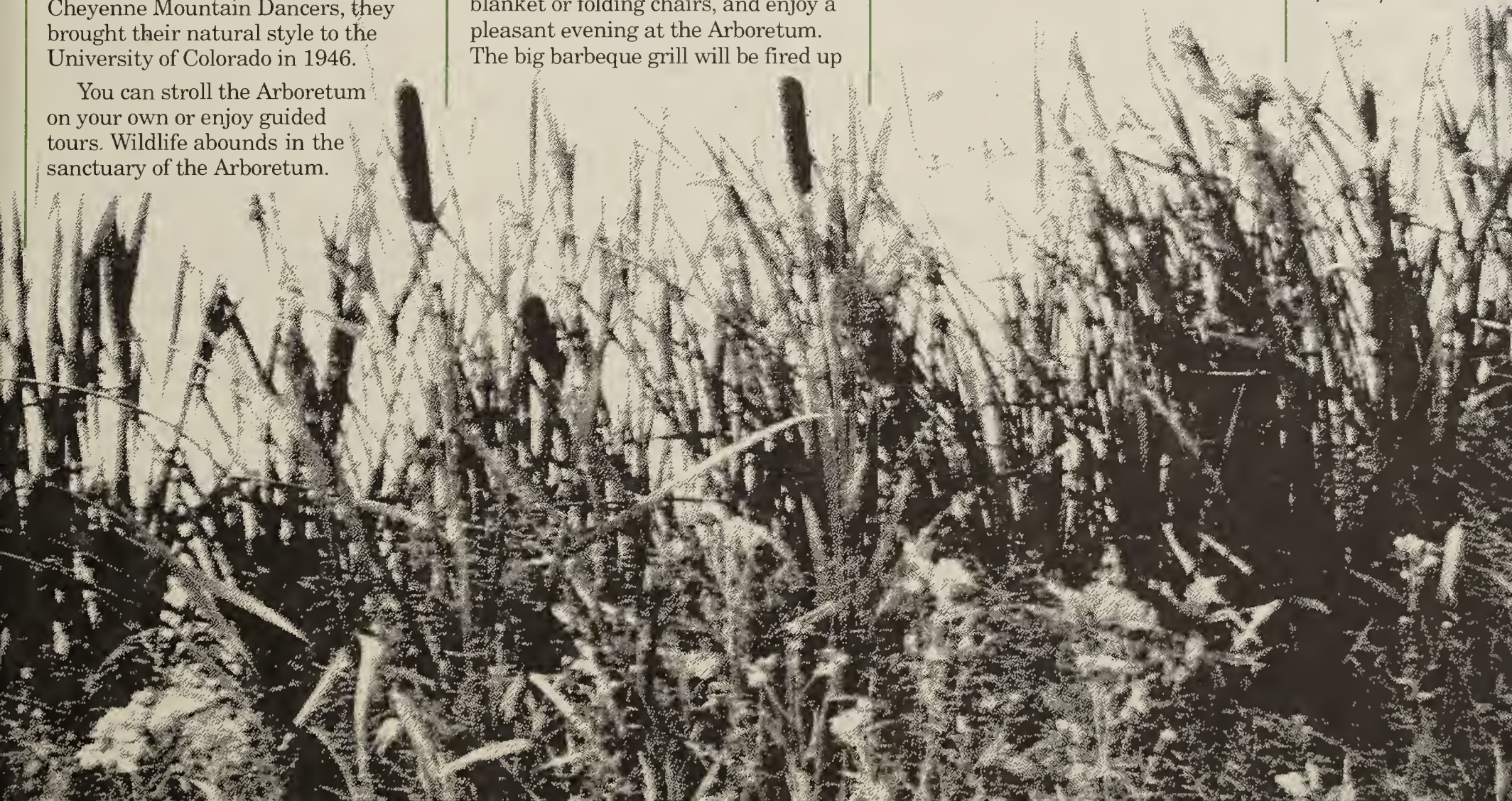
Deer can be seen on most days and, to astute observers, owl fledglings may be visible. Many other varieties of birds including waterfowl can be seen or heard. You can study the xeriscaping under way at the nature center and the native plants growing near the 1870s schoolhouse. Thousands of pumpkin and corn plants are growing for the popular Pumpkin Festival in October.

Plan to bring a picnic supper, a blanket or folding chairs, and enjoy a pleasant evening at the Arboretum. The big barbeque grill will be fired up

and ready for your use. Cake, lemonade and iced tea will be served. Make a reservation for your family and guests by sending in the registration form (above) before August 15. A confirmation card will be mailed to you; it is your ticket to the picnic.

Chatfield Arboretum is located at 9201 South Carr Street, Littleton (south on Wadsworth Boulevard 0.3 mile past C-470, west onto Deer Creek Canyon Road).

The wetlands at Chatfield Arboretum offer exciting glimpses of wildlife.



Japanese Tea Ceremony

Section I: Saturday, August 3
Section II: Sunday, August 11
Section III: Saturday, September 21
Section IV: Sunday, September 22
2 to 3 p.m.

Japanese Garden Tea House

Please indicate your section on the registration form

Based on harmony, respect, purity, tranquility and elegant simplicity, the tea ceremony has for centuries been considered the epitome of Japanese life. This is an opportunity to experience an authentic tea ceremony in the quiet beauty of our Japanese garden.

Instructor: Kathryn Kawakami has done much to inform Denver-area residents and students about the culture of Japan.

Fee: \$4 members/\$5 nonmembers

Limit: 15

Perennial Walk

Section I: Tuesday, August 6
Section II: Tuesday, August 27
5:30 to 7 p.m.

Please indicate your section on the registration form

Join us for an evening stroll through the DBG perennial displays and an opportunity to observe these versatile plants. Mr. Pierce will offer insights on the plants and their culture that you can use in your own gardening.

Meet: promptly at 5:30 p.m. outside the Education Building lobby.

Instructor: Andrew Pierce, Senior Horticulture Advisor at the Gardens, is an accomplished grower of perennials and alpine plants. His garden at home has been featured in several national magazines.

Fee: \$6 members/\$7.50 nonmembers

Limit: 24

Beginning Bonsai

(four sessions)
Thursdays, August 8, 15, 22 & 29
7:30 to 9:30 p.m.
Classroom B
August 15, 22 & 29
Morrison Center

This introductory course will cover the history and culture of bonsai, as well as instruction on styling, training, potting and care of bonsai plants. Each student will take home a completed bonsai. All materials will be provided.

Instructors: Keith Jeppson, former president of the Rocky Mountain Bonsai Society, is an experienced bonsai hobbyist of 18 years. Harold Sasaki is a commercial bonsai grower of 19 years.

Fee: \$56.50 members/\$62.50 nonmembers (includes \$22 for materials)

Limit: 15

Watercolor Painting

(five sessions)
Wednesdays, August 7, 14, 21, 28 & September 4
Section I: 9:30 a.m. to 12:30 p.m.
Section II: 6:30 to 9:30 p.m.
Classroom B

Please indicate your section on the registration form

Explore the sparkle and delicacy of watercolor painting while you enjoy the beautiful setting of Denver Botanic Gardens.

This course will cover the basic materials and techniques of watercolors, emphasizing freedom of personal expression. Come prepared with supplies: a one-inch flat brush, #10 round brush, watercolor paper, tissues, container for water, plastic palette and cake or tube watercolors.

Instructor: Boris Shoshensky teaches drawing, watercolor and oil painting at Rocky Mountain College of Art and Design.

Fee: \$60 members/\$72 nonmembers

Limit: 12

Behind the Scenes Greenhouse Tours

Section I: Saturday, August 10
1 to 2 p.m.
Section II: Sunday, August 25
1 to 2 p.m.

Please indicate your section on the registration form.

Ever wonder what goes on behind the beautiful displays at DBG? This is your chance to view propagation facilities, the service greenhouses, and the orchid and bromeliad house — behind-the-scenes collections seldom accessible to the public.

Meet: Main Lobby

Tour Leaders: DBG greenhouse staff members.

Fee: \$4 members/\$5 nonmembers

Limit: 15

Herb Mix Creations

Saturday, August 10
10 a.m. to noon
Polly Steele Nature Center
Chatfield Arboretum

Extend the pleasures of the growing season by creating herb mixtures that lend a touch of gourmet to culinary dishes all year 'round. You will learn to create herb swags for grilling, herb mixes for poultry and beef, Herbs de Provence and Fine Herbs. Interesting packaging ideas for herb gifts will also be taught. These simple and easy recipes are an asset when entertaining and are quite impressive as gifts.

Instructor: Karen Winans Morgan is the summer intern in DBG's horticulture therapy program as well as an avid herb gardener and creative gift giver.

Fee: \$16 members/\$18 nonmembers (includes an \$8 materials fee)

Limit: 12

Southwestern Native Crops Tour

Section I: Wednesday, August 14
Section II: Wednesday, August 28
9:30 to 10:30 a.m.

A new DBG display garden highlights the crops and other useful plants commonly used by southwestern Native Americans. Re-creating a variety of gardening practices that conserve water, this colorful garden offers insight into gardening techniques—terraces, bordered gardens and waffle gardens—that are of interest to all gardeners in our arid climate.

Meet: at the picnic tables at the north end of the Xeriscape Demonstration Garden.

Instructor: Karen Trout, DBG gardener who designed and maintains this garden, is actively interested in native plants and southwestern anthropology.

Fee: \$4 members/\$5 nonmembers

Limit: 20

Hunting Fascinating Fungi

(two sessions)
Thursday, August 15
7 to 9 p.m.
Saturday, August 17, field trip
9 a.m. to 2 p.m.
Visitor Center Chatfield Arboretum

August is a great mushroom hunting time in Colorado. Join an experienced mushroom hunter and guide to learn some of the locally common fungi.

The Thursday evening session covers identification of edible and poisonous mushroom and spore prints. Both fresh and dried specimens will be studied. Maps, field guides, equipment and other field trip arrangements will be discussed.

On Saturday meet at the Arboretum and carpool for a mushroom hunting foray to Burning Bear Campground.

Instructor: Ken Noteman is a member of the Colorado Mycological Society and is an experienced mushroom hunter.

Fee: \$18 members/\$22 nonmembers

Limit: 12

Tallgrass Prairie Field Trip

Saturday, August 17
10 a.m. to 3 p.m.

Observe and sample a good stand of tallgrass prairie along Highway 93 between Golden and Boulder, above Ralston Reservoir. The dominant grasses are big bluestem, switch-grass, needle-and-thread and side oats gramma. Fall flowers such as asters, blazing star and goldenrod will also be seen.

Please bring a plant identification book and hand lens if you have them and don't forget your lunch.

Meet: promptly at 10 a.m., 3.3 miles north of Highway 58 (Golden) on Highway 93, at the dairy just north of 58th Avenue on the east side of the highway.

Instructor: Paul Kilburn, Ph.D. has taught botany and ecology in Colorado for many years.

Fee: \$5 members/\$5.50 nonmembers

Limit: 20

Summer Lesson In Ikebana

Section I: Saturday, August 17

Section II: Saturday, August 31

9:30 to 11:30 a.m.

Morrison Center

This workshop is an introduction to Ikebana. It can also serve as a refresher course for students who have completed the Beginning Ikebana Lessons class. Two arrangements will be completed in the workshop.

Please bring the following materials to class: two round or rectangular ceramic containers (no smaller than 12 inches long and two inches deep), two needlepoint flower holders (one that is two inches wide or larger), sharp clippers, small bucket (or other container to hold flowers and water) and notebook.

Although flowers will be provided you should bring your own line material (branches).

Instructor: Joan Wooldridge is past president of Ikebana International and has teaching certificates in two schools of floral design.

Fee: \$11 members/\$13 nonmembers (includes a \$3 materials fee)

Limit: 12

DBG's Community Gardens Tour

Section I: Tuesday, August 20

Section II: Saturday, September 7
9:30 to 11 a.m.

Our community gardens are composed of 252 small plots that are a delightful composition of vegetables, flowers and herbs. Organically maintained and compost enriched, the gardeners use a variety of techniques,

including "French Intensive" and "square foot" gardening to increase yields. This year a scarecrow contest will delight all visitors. Come stroll these gardens during their peak to learn how other gardeners make their gardens more productive.

Meet: at the Morrison Center courtyard

Instructor: Judy Elliott is the coordinator of the DBG community gardens program and assists "Dr. Green" by answering gardening questions.

Fee: \$6 members/\$7.50 nonmembers

Limit: 20

Xeriscape and Plains Garden Walk

Section I: Wednesday, August 21

Section II: Wednesday, September 11

9:30 to 11 a.m.

Please indicate your section on the registration form.

Both of these gardens suggest inspiring alternatives to traditional styles of gardening for the semi-arid West. The Xeriscape Demonstration Garden includes rare and endangered species of dryland plants. The Laura Porter Smith Plains Garden, an area of native grasses and other prairie plants, re-creates seven plant systems of the Colorado High Plains.

Meet: at the picnic tables at the north end of the Xeriscape Demonstration Garden.

Instructor: Karen Trout

Fee: \$6 members/\$7.50 nonmembers

Limit: 20

Aquatic Plant Walk & Picnic Lunch

Section I: Sunday, August 25

Section II: Sunday, September 8
11 a.m. to 1:30 p.m.

DBG has the most outstanding water gardens in the country due to our fine collection, abundant sunshine and expert gardening staff. This time of year the hardy and tropical water lilies and other aquatic plants are in full bloom. This stroll will introduce you to the variety of plants that makes the display so dazzling. Bring a sack lunch.

Meet: at the gazebo at the Water Display Garden.

Instructor: Joseph V. Tomocik has been DBG's gardener responsible for maintaining the water gardens since 1982. He has lectured at DBG, Longwood Gardens and Missouri Botanical Gardens.

Fee: \$8 members/\$10 nonmembers

Limit: 20

Gardening Basics

(seven sessions)

Tuesdays, September 3, 17, October 1, 15

Classroom B

September 10, 24 & October 8

7 to 9 p.m.

Classroom A

This series for gardening newcomers (and others) covers site selection, soils, watering and many other facets of horticulture. Plant lists from the well-illustrated sessions will be available and questions are encouraged — bring your own ideas.

You may enroll for either the entire program or any individual session:

1. Annuals
2. Bulbs
3. Ground covers and grasses
4. Perennials
5. Rock gardening
6. Shade plants
7. Trees and shrubs

Instructor: Andrew Pierce

Fee: \$56 members/\$68 nonmembers for series, \$8 members/\$10 nonmembers per session

Limit: 18

Landscape Plant Materials for Professionals

(ten sessions)

Wednesdays, September 4, 11, 18, 25, October 2, 9, 16, 23, 30 & November 6

7 to 9:30 p.m.

Morrison Center

This intensive course is designed for professionals, although serious amateurs will also find it stimulating and beneficial.

A thorough examination of approximately 400 native and introduced trees, shrubs, vines and ground covers suitable for our Colorado climate and soils will be presented. You will view over 1,800 slides in the ten-week course.

Instructor: Alan Rollinger, a CSU graduate, is a professional landscape designer specializing in residential planning. He has developed over 800 landscaping projects and has lectured and taught over 20 years.

Fee: \$195 members/\$235 nonmembers

Limit: 50

Kathryn Kawakami gracefully displays the art of the Japanese tea ceremony.



8 Gourmet Garden Oils and Vinegars

Saturday, September 7
9:30 a.m. to 12:30 p.m.
Polly Steele Nature Center
Chatfield Arboretum

Herb oils and vinegars enhance even the simplest of meals and salads. Learn how to make herb-infused vinegars and oils as well as creative bottle presentation techniques. You will be impressed with your new-found talent and surprised at how fun and easy it is to use these garden products.

Instructor: Karen Winans Morgan
Fee: \$20 members/\$24 nonmembers (includes \$8 materials fee)
Limit: 12

Native Grass Walk

Saturday, September 7
9 to 11 a.m.
Chatfield Arboretum

The Gardens' Chatfield Arboretum has been planted with many grasses native to this region. Observe these re-introduced grasses as well as many others that have naturalized at the Arboretum.

Please bring a plant identification book and hand lens if you have them. Wear sturdy walking shoes.

Meet: at the parking lot next to the visitor center.

Instructor: Janet Wingate, Ph.D., has taught botany for DBG, the University of Denver and Metropolitan State College. She specializes in grass identification.
Fee: \$8 members/\$10 nonmembers
Limit: 20

Colorful Composites

Saturday, September 14
9 a.m. to 2 p.m.
Polly Steele Nature Center
Chatfield Arboretum

The predominant flowering plants seen in the late summer and fall are the members of the sunflower family.

This hands-on workshop will cover flower structure, family characteristics and the use of a simple teaching key. Come prepared for both indoor and outdoor activities. Please bring a sack lunch, wear good hiking shoes and dress for the weather.

Instructor: Vicki Trammell is an avid botanist who has been a seasonal naturalist at Roxborough State Park.
Fee: \$20 members/\$24 nonmembers
Limit: 15

Drawing from Nature

(six sessions)
Mondays, September 16, 23, 30,
October 7, 21 & 28
(no class October 14)
9:30 a.m. to noon
Classroom B

From living plants to still life settings, from realism to abstraction, learn to see, sketch and draw natural forms and designs and then translate your black and white studies into exciting color. You will receive instruction and demonstration in assorted media and subject matter.

Bring a large sketch pad, soft charcoal and drawing pencils to the first class.

Instructor: Oksana Ross, Ph.D., is an art historian and artist. She has taught at the University of Colorado at Denver, Metropolitan State College and Colorado Women's College.
Fee: \$48 members/\$58 nonmembers
Limit: 20

Golden Aspens and Their Natural History

(two sessions)
Thursday, September 19
6:30 to 8:30 p.m.
Visitor Center
Chatfield Arboretum
Saturday, September 21
9 a.m. to 2 p.m.
Chatfield Arboretum parking lot

Do you know that aspens are one of the most widely distributed trees in the lower 48 states? You will view slides and learn about the plants and animals associated with Colorado's aspens.

A field trip to an aspen area will show you other characteristics of these colorful trees.

Instructors: Tina Jones, naturalist, has studied Colorado and alpine ecosystems at the University of Colorado Boulder Research Station near Ward. Jim Trammell, Chatfield Arboretum naturalist, will lead the field trip.
Fee: \$13 members/\$16 nonmembers
Limit: 12

Gardening for Seniors — Indoors and Out

Friday, September 20
9 to 11:30 a.m.
Morrison Center

If you, a friend, or senior relative is looking for easier ways to plant, harvest or care for a garden, this class will give new or seasoned gardeners ideas for special tools and methods for overcoming physical challenges. Seniors can continue to experience the joys of gardening by eliminating some of the frustrations. Your specific needs or questions will be welcomed.

Instructor: Rebecca Haller, HTM, is

the DBG horticultural therapist. She has a strong interest in helping everyone who has the desire to garden.

Fee: \$10 members/\$12 nonmembers
Limit: 20

Overwintering Your Aquatic Plants

Sunday, September 22
1 to 3 p.m.
Classroom A

What should you do to keep your aquatic plants over winter? If you have a collection, don't dispose of it—save it. Learn the winter care of hardy and tropical water lilies, lotus and emergent plants.

Instructor: Joseph V. Tomocik, horticulturist of the DBG water gardens since 1982, has lectured at DBG, Longwood Gardens and Missouri Botanical Gardens.
Fee: \$8 members/\$10 nonmembers
Limit: 20

Fall Composting

Section I: Saturday, September 21
9:30 to 11:30 a.m.
Morrison Center
Section II: Saturday, September 28
9:30 to 11:30 a.m.
Visitor Center
Chatfield Arboretum
Please indicate your section on the registration form

When leaf litter and yard wastes begin to build up in the backyard, what should you do? Learn how to use these materials to prepare valuable organic compost for next year's gardens and flower beds.

Compost smells good, is rich in organic material, and will help your garden grow.

Instructor: Judy Elliott
Fee: \$8 members/\$10 nonmembers
Limit: 20

Nature and Landscape — A Quiltmaking Lecture

Friday, September 27
7 p.m.
John C. Mitchell II Hall

This slide lecture will inspire and entertain quilters and nonquilters alike. Its theme is nature's inspiration in quiltmaking, and the slides will illustrate nature's geometry. You will also learn how the fabric, batting and stitches you choose can have an important effect on the overall design.

Speaker: Nancy Halpren has taught and lectured on quiltmaking for over 15 years. Her prize-winning work has been featured extensively in national and international shows.

Registration

Class fees must be paid in advance by credit card, check or money order made out to Denver Botanic Gardens. Phone registration will be accepted for credit card payment only. Space in many classes is limited. You will be enrolled in class the day your payment is received. All classes are subject to a minimum of ten students. For further information, please call 370-8020.

Fee: \$6 members/ \$7.50 nonmembers in advance; \$7.50 members/\$10 nonmembers at the door
Limit: 150

Nature, Landscape and Quiltmaking Workshop

(two sessions)
Friday & Saturday, September 27 & 28
9 a.m. to 4 p.m.
Morrison Center

In this workshop for intermediate and advanced quilters, participants will develop original quilt patterns based on the geometric suggestions of natural objects (leaves, flowers, stars) and combine them into “quilt landscapes” (trees, gardens, sky). While the focus is on piecing, applique will also be considered. Bring a well-loved natural object or photo for design inspiration.

Instructor: Nancy Halpren
Fee: \$60 members/\$75 nonmembers
Limit: 20

Cooking with Judith Fine-Sarchielli

(Please bring a small chef’s knife, paring knife, apron and a cutting board if you wish to participate in the hands-on part of these classes.)
Instructor: An accomplished chef, caterer, food consultant, teacher and designer, Judith Fine-Sarchielli lived in Italy for 15 years.
Fee for each class: \$16.50 members/ \$20 nonmembers (includes \$4.50 for materials)

Limit for each class: 12

Chiles International

Saturday, August 17
1 p.m. to 3:30 p.m.
Morrison Center

Have you a favorite international chile recipe you would enjoy sharing with us?
Sarchielli will show her knowledge of exotic chile peppers and recipes from South America, North Africa, Mexico, Thailand, China, India and Europe by including her own concoctions such as Far East of the border rice noodle soup, pineapple lime chile salsa, Florentine pepper oil and others. Be sure to bring your own recipes for 15 and we’ll share them. Also bring rubber gloves for handling these fiery vegetables safely.

Classic Tuscan Entrees

Sunday, September 8
1 p.m. to 3:30 p.m.
Kitchen next to DBG Library

These centuries-old Sarchielli family recipes result in refreshing and tanta-

lizing entrees for buffets, dinner parties, al fresco dining and family brunches, lunches and dinners: roast chicken with rosemary, cannelloni beans in tomato sauce, roast potatoes with herbs, *saltimbocca alla Romana* (veal birds).

The Denver Botanic Gardens School of Botanical Illustration

Accredited by the University of Colorado
The School of Botanical Illustration offers a series of courses providing a comprehensive education in the scientific illustration of plants. Students have the opportunity to start with fundamental principles and drawing skills, and systematically learn the techniques of many media, as well as focus on design and composition.

The classes are organized to develop skills sequentially. Students wishing to start in other than Beginning Drawing must have permission from the instructors, should space be available.
The School of Botanical Illustration is open to amateur, professional and student artists. You may choose to take courses without receiving college credit.

One college credit hour will be awarded for each pair of classes completed, either I and II, III and IV, or V and VI.
Instructors: Rob Proctor, author and illustrator, and Angela Overy, designer and illustrator, coordinate this program and teach most of the classes. Guest instructors Paula Nicholas, Shari Jones, Michael Eagleton and Carolyn Crawford broaden the curriculum by teaching special skills.

Supplies: Specific supplies are required for each class. A list will be sent with your class confirmation. Addition-



Registration Form for Classes, Field Trips and Lectures

Enclosed is \$ _____ for the following classes:

Name and section of class(es) _____

Name _____

Member of Denver Botanic Gardens ☐ Yes ☐ No

Member ID _____
(on top line of newsletter address label)

Address _____

City _____ Zip code _____

Daytime Phone _____ Evening Phone _____

☐ Cash ☐ Check ☐ VISA ☐ MC

_____ Exp. _____

Signature _____

al supplies will be recommended by instructors throughout the courses.
Fee for each course: \$50 members /\$60 nonmembers for noncredit students. Course fee for college credit is \$125 for Parts I and II.
Limit: 20

I. Beginning Botanical Drawing

(six sessions)
Tuesdays, Sept. 3, 10, 17, 24, October 1 & 8
Section I: 9:30 to 11:30 a.m.
Section II: 12:30 to 2:30 p.m.
Morrison Center

Learn the basics of representational drawing using fresh flower specimens. This class stresses careful observation, with emphasis on perspective and shading with pencil. This is an ideal course for the beginner or an excellent refresher course.

II. Drawing Plants in Color

(six sessions)
Tuesday, October 15, 22, 29, November 5, 12 & 19
Section I: 9:30 to 11:30 a.m.
Section II: 12:30 to 2:30 p.m.
Morrison Center

Students will begin to work in colored pencil, refining their skills to accurately and realistically produce renderings of plants. The emphasis is on proper technique to achieve highlights, depth and texture.
The School of Botanical Illustration also offers courses in *Beginning Botanical Watercolors* (beginning December 3), *Drawing Plants for Publication* (January 28), *Botanical Illustration, Mixed Media* (March 10) and *Advanced Botanical Illustration* (April 28).
Questions should be directed to the education department at 370-8020.

9

Class locations:
Classrooms A, B and C are at 1005 York Street, Denver.
The DBG Morrison Horticultural Demonstration Center is at 2320 East 11th Avenue, Denver.
Chatfield Arboretum is at 9201 South Carr Street, Littleton (south on Wadsworth Boulevard 0.3 mile past C-470, west onto Deer Creek Canyon Road).

AUGUST

Coming Up

Classes are in italics. Asterisk* indicates the first meeting of a class with more than one session.

August

- 1 Bill Douglas with the Boulder Bassoon Band KCFR/Gardens Concert
- 1-11 Glass at the Gardens
- 3 *Japanese Tea Ceremony, I*
- 6 *Perennial Walk, I*
- 7 * *Watercolor Painting*
- 8 * *Beginning Bonsai*
- 9 Gurrufio KCFR/Gardens Concert
- 10 *Behind the Scenes Greenhouse Tour, I*
- 10 *Herb Mix Creations*
- 11 *Japanese Tea Ceremony, II*
- 14 *Southwestern Native Crops Tour, I*
- 15 Obo Addy & Kukrudu KCFR/Gardens Concert
- 15 * *Hunting Fascinating Fungi*
- 17 *Tallgrass Prairie Field Trip*
- 17 *Summer Lesson in Ikebana, I*
- 18 Mushroom Fair
- 20 *DBG's Community Gardens Tour*
- 21 *Xeriscape & Plains Garden Walk*
- 23 Claude Bolling & the Claude Bolling Big Band KCFR/Gardens Concert
- 23-25 Perennials Workshop
- 24 Members' Day at Chatfield Arboretum
- 24 & 25 Sunflower Harvest Festival
- 25 *Aquatic Plant Walk & Picnic Lunch*
- 27 *Perennial Walk, II*
- 28 *Behind the Scenes Greenhouse Tour, II*



- 28 *Southwestern Native Crops Tour, II*
- 29 Betty Carter KCFR/Gardens Concert
- 31 *Summer Lesson in Ikebana, II*

Join Us for Members' Day at Chatfield Arboretum Wednesday, August 24

Denver Botanic Gardens, Inc.

909 York Street
Denver, Colorado 80206
303-331-4000 • 370-8032 TDD

Address correction requested

TIME VALUE

August 1991

Plant
Societies
at DBG

Many plant and horticultural societies meet regularly at DBG. For their meeting times or to contact a representative of any group in which you are interested, call Denver Botanic Gardens during business hours: 331-4000, 370-8032 TDD.

Non Profit Org.
U.S. Postage
PAID
Permit No. 205
Denver, CO



Mayor Picks DBG's Bruce Alexander to Head Parks & Rec

Interim executive director Bruce Alexander will move up to the post of manager of parks and recreation in the cabinet of Denver Mayor Wellington Webb. Mr. Alexander has managed the Gardens for a year and a half during its search for a permanent director.

While at the Gardens Mr. Alexander guided it through a period of rapid change, preparing a stable yet exciting foundation for its future growth and leading it through the long range planning that will provide its strategy into the 21st century.

Mr. Alexander, a Denver native, has a long career of public service. He was the 1980 chairman of the Mile High United Way Campaign, is past chairman of the Colorado Public Expenditures Council and is currently a trustee of the Colorado Symphony Orchestra Retirement Fund. Denver Botanic Gardens is grateful for his brief but energetic leadership.

Green Thumb



NEWS

Denver Botanic Gardens September 1991 Number 91-9

Richard H. Daley, Massachusetts Horticultural Society, Named Denver Botanic Gardens Executive Director

Newell M. Grant, president of the board of trustees of Denver Botanic Gardens, has announced the selection of Richard H. Daley to be the new executive director of Denver Botanic Gardens. Daley has been the executive director of the Massachusetts Horticultural Society since 1984. He succeeds Bruce D. Alexander, who has been interim director of the Gardens since April, 1990.

"We are absolutely delighted that Rick Daley has accepted this key leadership position at Denver Botanic Gardens," Grant said.

"He is a superb administrator, an individual of great accomplishments and a person whose background and experience have given him a solid understanding of the importance of the horticulture of the High Plains and western United States."

Daley is expected to assume his duties in Denver in the autumn.

An alumnus of Colorado State University, Daley has had a distinguished career with major horticultural and environmental institutions.

As executive director of the Massachusetts Horticultural Society, Daley was responsible for the administration, management and planning for the institution and for its \$2.5 million annual operating budget. During his tenure at the Society membership increased from 5,000 to 9,000;

the number of volumes in the Society's library was increased to 80,000, making it one of the nation's leading research resources; and the Society inaugurated major children's and community outreach programs.

Daley also was responsible for overseeing the annual New England Spring Flower show, which attracts more than 150,000 people each year and which raised more than \$500,000 in 1991. The show is the third largest in the world.

From 1982 to 1984 Daley was director of public programs at the Missouri Botanical Garden in St. Louis, where he was responsible for programming and marketing for the institution, which serves more than 500,000 people annually. He played a key role in a successful campaign to bring direct tax support to the Missouri garden for the first time in its 125-year history.

Daley served as special assistant to the director of the Missouri garden from 1976 to 1982, a position in which he led the institution's legislative programs and its grant solicitation and historic preservation programs.

He was a Waterways Experiment Station consultant to the U.S. Army Corps of Engineers in 1976 and

authored field guides to the wetlands of central United States, Alaska, the Gulf Coast and peninsular Florida for the Corps' wetlands protection program.

As director of ecological services from the Missouri Botanical Garden from 1973 to 1976, Daley was responsible for the creation and management of environmental impact studies for the Corps of Engineers and for various state agencies.

Daley received his bachelor of science degree in biology from Colorado State University in 1970 and his master of science degree in plant ecology from CSU in 1972. He has completed the executive seminar of the Wharton School of Business and the St. Louis Leadership Program of the Danforth Foundation.

Daley was raised in Oklahoma City and currently lives with his wife, Lucy, in Sherborn, Massachusetts.



Inside:

Horticultural therapy
page 2

Members' plant dividend day
page 3

Composting
page 4

Costa Rica
page 5

Classes
pages 7-11

Coming up
page 12

Tasty, vitamin-rich summer squashes grow in many shapes. Look for them at the Men's Garden Club sale.



Plant, Used Book Sale Breaks Attendance, Income Records

Final reports from the 1991 Plant and Used Book Sale indicate the volunteer-managed fund-raiser broke all records for attendance and income. Chairman Jane Davis says over 15,000 people came to the Gardens Friday and Saturday before Mothers Day to buy plants, books and gardening equipment. Net income was over \$120,000.

Proceeds from the sale augment the Gardens general operating fund, which supports the staffing, development and maintenance of many of the Gardens displays and programs.

Tributes

In honor of Ruth Porter Waring's 102nd Birthday

Ruth Halpenny
Anne Waring Maer
Claude M. Maer, Jr.
James Waring White
Nancy & Ted White

In memory of Mrs. Samuel (Marjorie) Childs

Garden Club of Denver
James E. Stokes

In memory of Mrs. Winima Freeburg

The Bow Mar Knolls Bridge Club

In memory of Dorothy K. McGlone

Forrest G. McGlone

In memory of Alice Mann Owen

Restricted to the Alice Mann Owen Internships in Applied Horticulture
Mr. J. Churchill Owen

In memory of Frances E. Tennant

Mrs. James G. McGrew

In memory of George W. Wilson

Roy & Marianna Ambrusch

Plants & People—Who Takes Care of Whom

The next time you're watering, pruning or merely fussing over your plants, take some time to think about what they're giving you in return. That's the viewpoint explored by Steven Davis, acting director of the American Horticultural Therapy Association, in a captivating lecture at the Gardens Thursday evening, October 24, in John C. Mitchell II Hall. His lecture starts at 7 p.m.

Mr. Davis is a prolific writer, lecturer and promoter of plant care for the well-being of people. The director of horticulture for the American Horticultural Society for 11 years, he also was instrumental in founding the International Waterlily Society and has been published in the Time-Life series of gardening books and in Rodale Press' *Illustrated Encyclopedia of Landscaping and Gardening Techniques*.

DBG members will not want to miss this opportunity to share Mr. Davis' enthusiasm for the world of plants and their worth in our lives. Call the education department for tickets (\$4), 370-8020, or, on the telephone device for the deaf (TDD), 370-8032.

Employee of the Month

Larry Latta, public information coordinator and a seventeen-year veteran at the Gardens, is August employee of the month. Larry started as a seasonal laborer, worked through the gardening ranks to the education department and on to community affairs, where he is being recognized for his public relations and writing skills. Congratulations, Larry!

Orchid Society Dedicates Show To Gardens

The Denver Orchid Society announced that it is dedicating its national orchid show in October to Denver Botanic Gardens in honor of the Gardens' 40th anniversary. Members of the Gardens can see the show, to be mounted October 11 to 13 at the Hyatt Regency, for \$2, half off the regular \$4 admission.

The show is held in conjunction with the annual conventions of the American Orchid Society, the Orchid Digest Corporation and the Southwest Regional Orchid Growers Association. The event is the largest show in the U.S. and attracts orchid fanciers and commercial growers from throughout the nation. A half-day tour of Denver Botanic Gardens is on the conventioners' schedule.

Society president Marion J. Allen said, in making this announcement, "Many members of the Denver Orchid Society have close ties with the Gardens. A commemoration of the anniversary of the Gardens is a fitting tribute to this long and beneficial relationship."

Corporations Match Gifts to Gardens

Here's a reminder for members contemplating a year-end donation to the Gardens: Check with your employer. Many corporations will match employees gifts, effectively doubling the work your generosity will enable the Gardens to do.

Green Thumb News Number 91—9 September 1991

Published monthly by
Denver Botanic Gardens
909 York Street
Denver, Colorado 80206-3799

Edited by Larry Latta, 370-8033

Deadline for October issue: August 20

Subscription to this newsletter is a benefit of membership in Denver Botanic Gardens. For information please write the membership department at the above address or call 370-8029, 370-8032 TDD.

Denver Botanic Gardens and Chatfield Arboretum are established and maintained by Denver Botanic Gardens, Inc., for the people of the City and County of Denver and for the general public in cooperation with the Denver Parks and Recreation Department.

Denver Botanic Gardens is also grateful for funds from the Scientific and Cultural Facilities District (SCFD), which enable the Gardens to expand services and enhance the quality of programs and exhibits.



Tropical Ecology, Orchids, Bromeliads For Rainforest Month

The tenuous fate of tropical rainforests is the subject of the current display in the Gardens' Ida C. Mitchell Lobby Court. Members are encouraged to see this joint effort of the education department and the plant collections curators.

Plants of the world's moist forests will be featured in September. Then the exhibit will evolve to concentrate on orchids, bromeliads and other epiphytes. The exhibit of tropical plants and conservation information will continue through October, National Rainforest Month.

Free Day September 16

Monday, September 16, is a free day at the Gardens at 1005 York Street for all residents of Colorado.

This is your opportunity to bring a friend or neighbor to acquaint them with the late-summer beauty in the plains garden, the lobby rainforest exhibit, the early chrysanthemum display and other beautiful spots in the Gardens.

Men's Garden Club Sale September 16

Saturday, September 7, the parking lot at Denver Botanic Gardens House, 909 York Street, is the site of the annual sale by the Men's Garden Club of Denver.

Fresh produce, houseplants and propagations from members' gardens will be sold from 9 a.m. until 4 p.m.

The Men's Garden Club is a long-time supporter of Denver Botanic Gardens. Please stop by. You'll find not only garden-fresh produce but an opportunity to assist the Gardens' education programs as well.

Gesneriad Show September 14 and 15

The annual show and sale by the Gloxinia Gesneriad Growers is the weekend of September 14 and 15 in John C. Mitchell II Hall.

Members of the 3 G's are connoisseurs of the African violet family of plants and are noted for the unusual species and hybrids they bring to this event. If you're looking for something different to grow at your windowsill, get acquainted with these interesting, beautiful plants.

Hours of the show are 1 to 4:45 p.m. Saturday, 10 a.m. to 4:45 p.m. Sunday. Set-up and registration are Saturday morning, but are not open to the public.



Buttress roots are an adaptation by some tropical trees to gain stability in the thin layer of soil common to many rainforests.

Members' Plant Dividend Day September 14

Each September Denver Botanic Gardens offers members a free plant to thank them for their support of the Gardens through the year. This year's members' plant dividend day is Saturday, September 14.

Indoor plants include both flowering and foliage types. *Piper nigrum*, or black pepper, makes an interesting indoor foliage plant; its seeds are the source of common table pepper. *Hypoestes*, or polka-dot plant, is also grown for its foliage, which is covered with numerous small, pinkish spots. Another indoor foliage selection is palm grass, *Setaria palmifolia*, an unusual plant with dark green palm-like leaves that grow to about two feet long. Those who enjoy cacti and succulents can take home *Sedum morganianum*, known as burro's tail sedum. Its trailing, silvery foliage will stay most attractive if the plant is located in a sunny south window and moisture is limited.

If you have bright indoor light you may want to choose from several flowering indoor plants. We will offer several named varieties of *Lantana camara*. In sufficient light these shrubby plants will reward you with colorful verbenalike clusters of flowers. Children might particularly enjoy *Acalypha repens*, a dwarf type of chenille plant whose inflorescence resembles a fuzzy red caterpillar! Also offered is *Abutilon*, or flowering maple. It is not a true maple but takes its common

name from its maple-like foliage. We will offer two cultivars 'Fireball,' with red-orange flowers, and 'Moonchimes,' with yellow flowers.

If you are looking for a new addition to your outdoor garden you will also have a number of options. *Larix kaempferi*, more commonly known as Japanese larch, is an unusual tree because it is a deciduous needled conifer. A shrub possibility is *Daphne x burwoodii* 'Carol Mackie.' This is the daphne with white-margined foliage that is so frequently admired in the DBG Rock Alpine Garden. *Lamium maculatum* 'Album' would be an excellent groundcover plant. It has silvery foliage and will tolerate shade. From our Japanese garden we have collected *Iris pseudacorus*. This iris has yellow flowers and prefers a moist location. For an accent in your yard you may want to choose the small flowering shrub *Weigela florida* 'Variegata Nana.' It will grow about three feet tall, has variegated foliage and rose-colored blossoms.

This is a sampling of the plants available as members' dividends. A complete list with descriptions will be available at the event. To claim your plant, bring your membership card and the coupon printed below to the patio outside the Gift Shop between 9 a.m. and 4 p.m. Supplies of each plant are limited so please come early for the best selection.



1991 Members' Plant Dividend

This coupon entitles you to one free plant *per membership at any level*. Please complete it before making your selection, clip it out and exchange it for your plant on September 14.

Name _____

Member ID _____

Address _____

City _____ State _____ Zip _____

Bring this coupon with you!

Fall Composting: Turn Over an Old Leaf

This fall Denver Botanic Gardens, the Denver Water Commission and the City and County of Denver

Department of Public Works have teamed up to ask homeowners to turn over an old leaf!

The organizations have produced a brochure on how to make the best of all soil conditioners—compost—instead of hauling leaves and other yard wastes to the trash, where they

amount to nearly 20 percent of Denver's residential landfill.

The addition of compost to Colorado's usually clay soils is the single best soil amendment available. Compost is a rich source of decomposing organic material and provides nutrients for vigorous plant growth. Clay soils, while nutrient rich, have tightly bound particles which make root penetration difficult. Compost amends alkaline soil pH, loosens clay particles, opens air channels and stimulates root growth. In addition, compost conserves water through its ability to hold nearly 100 per cent of its weight in water.

To make your own brown gold compost follow these simple directions:

1. Choose a shady, level area at least 3 feet square.
2. An inch or so under the area open the ground with a pitchfork or shovel.
3. Mix finely chopped, high-carbon materials such as leaves, straw, twigs and newspaper and finely chopped, high-nitrogen materials such as grass clippings (untreated...no pesticides please) and food scraps. (Weeds, coffee grounds, egg shells and vegetable trimmings are a special treat, but fats, cheeses, meat, bones or dog or cat feces may attract flies or vermin.)
- Alternate 4- to 6-inch layers of chopped carbon and nitrogen materials.
4. To introduce the friendly bacteria who help decompose the carbon and nitrogen layers, throw several shovels full of garden soil on top of the layers.
5. Water the layers until they feel like a wrung-out sponge.
6. Continue building layers of carbon and nitrogen materials and soil.
7. Direct sunlight slows the composting process, so cover the top of your pile with black plastic or straw.
8. Once a week, turn or stir your pile to provide air channels.

9. If you keep your carbon and nitrogen layers finely chopped, add soil, build the pile a minimum of 3 feet high, moisten it so it's like a wrung-out sponge, and turn it for air, in just two months you will have your own

'Petals & Threads' Quilt Show and Sale

Quilts and quilting are enjoying a new popularity. Originally quilts were used for warmth and, as a means for passing down family histories. Today they are still used for warmth but have taken on a new role, interior design. They tell a story, paint a picture and express the quilter's artistic feelings. Today a quilted piece can be found in most homes and many businesses.

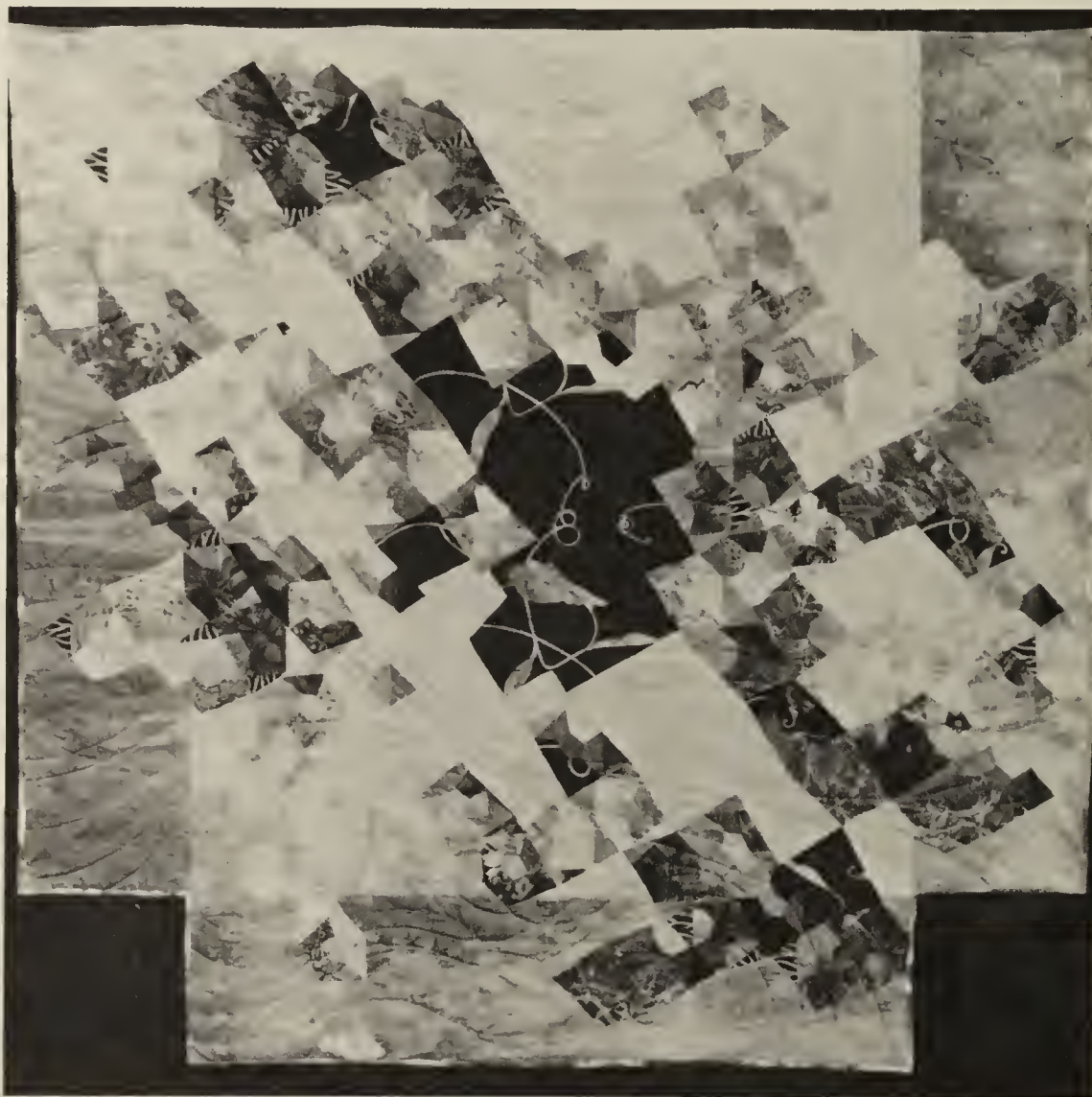
The most comprehensive quilt event in Colorado is coming to the Gardens Friday through Sunday, September 27 through 29. "Petals and Threads" has something for everyone. Quilted and other fabric crafts of all sizes will be for sale. This is the perfect time to begin your holiday shopping or add to your own collection.

An exhibit of show quilts will be hung in John C. Mitchell II Hall and the lobby court. The quilt challenge will involve everyone attending the three-day event. Quilters will submit their creations for judging and displaying. Prizes will be awarded to the "best of show," selected by a panel of judges and "people's choice," determined by those attending the show.

Demonstrations of quilting techniques will be from 9 a.m. to 4 p.m., Friday and Saturday, September 27 and 28, and from 9 a.m. to 1 p.m. on Sunday, September 29. Sunday at 1 p.m. there will be a wearable art presentation. Wearable art is the new look in quilted clothing: intricately pieced fabrics are made into clothing and fashion accessories. This is a presentation you won't want to miss.

Especially exciting for serious quilters is the workshop by Nancy Halpren, a nationally acclaimed teacher, lecturer and award-winning quilter. She will present a lecture at 7 p.m., Friday evening, September 27, titled "Nature, Landscape and Quilting" and a two-day workshop with the same theme September 27 and 28.

Advance tickets for the lecture are \$6 members/ \$7.50 non-members. Tickets at the door are \$7.50 members/ \$10 nonmembers. To make reservations for the lecture or be placed on the waiting list for the workshop please call the education department at 370-8020. For information on the show and sale call the special events office at 370-8015.



brown gold compost. And great soil for next season's gardening!

To learn more about composting, visit the DBG Community Garden backyard composting display at 11th and York streets. The garden is open weekends from 8 a.m. to 2 p.m., Mon-

day through Wednesday from 8:30 a.m. to dusk and Friday from 8:30 a.m. to 7 p.m. through mid-October.

For more information about recycling, call 640-1675. For more information about water conservation, call 628-6343.

Quilts of many colors and designs will be featured at the 'Petals & Threads' show.





Costa Rica: A Tropical Forest Adventure

February 20 - March 1, 1992

You are cordially invited to join your fellow Denver Botanic Gardens members in experiencing the mystery and wonder of Costa Rica.

This charming Central American nation enjoys a system of authentic democracy and political tranquility which has earned the reputation "the Switzerland of the Americas."

Tiny Costa Rica, roughly the size of West Virginia, is a microcosm of the Western hemisphere's tropical flora and fauna as well as an independently developed ecosystem. The diverse terrain, ranging from dense jungles and high mountain plateaus to glistening beaches, shelters over 12,000 varieties of plants, 850 species of birds and 237 species of mammals. Costa Rica's exceptional National Parks system reflects a strong commitment to conservation which has positive global effects.



Cost of Tour: \$1870 based on double occupancy; \$650 airfare, including airport departure taxes. A voluntary \$125 contribution to DBG is requested. (Supplement for single occupancy cannot be guaranteed outside of San Jose and will be calculated on request.)

The land price includes all lodging, air, land and water transportation and baggage handling within Costa Rica, meals and special events as specified, admissions, taxes, gratuities and local bilingual naturalist experts. Fully escorted throughout by Barbara Baldwin and Marion Woods, who is a Costa Rican native and speaks Spanish. Valid passport required.

For more information call Barbara Baldwin, 778-7292, or Andrew Pierce, 370-8002.

Costa Rica: A Tropical Forest Adventure • February 20 - March 1, 1992

Abbreviations: B=breakfast L=lunch D=dinner NG=naturalist bilingual expert guide.

Thursday, February 20 Morning group air departure from Denver. Arrive Juan Santamaria airport in San Jose, Costa Rica. Transfer to the luxurious Cariari Hotel and Country Club. (L & D on airplane.)

Friday, February 21 Welcome breakfast followed by a visit to a butterfly farm. The first enterprise of its type in Latin America, the farm breeds tens of thousands of butterflies representing over 60 species that can be seen in a natural setting in all four stages of their development. This afternoon we will have a guided tour of the highlights of San Jose. Dinner on your own. Overnight at Cariari Hotel and Country Club. (B L)

Saturday, February 22 Morning departure for Tortuguero National Park in light charter airplanes. Overnight at Tortuga Lodge, which features private hot water baths, fans, first-rate bar and restaurant service and beautifully maintained grounds. The lodge is located 10 minutes from the park by boat. (B L D NG)

Sunday, February 23 Today we have a full day of exploring the backwater lagoons of Tortuguero National Park, a 21,000-hectare tropical rain forest in its natural state. Overnight at Tortuga Lodge. (B L D NG)

Monday, February 24 Fly back to San Jose. Afternoon on your own for tennis, swimming, strolling the lovely grounds of the Cariari or just resting. A special evening includes dinner at the well-recommended restaurant Cocina de Leña. After dinner we will be treated to "Fantasia Folclorico" at the Melico Salazar Theater. Overnight at Cariari Hotel and Country Club. (B D NG)

Tuesday, February 25 Day motorcoach trip to the Orosi Valley, Cartago City and Lankaster Gardens. Overnight at the Cariari Hotel and Country Club. Dinner on your own. (B L NG)

Wednesday, February 26 Drive to Puntarenas via Poas Volcano, the largest geyser-type volcano in the world. On to Sarchi, the handicrafts capital of Costa Rica, where we will visit the traditional and colorful oxcart painters. Overnight at Hotel Yadrán, a private beachfront hotel with air conditioning, private hot water baths, swimming pool, bar and restaurant. (L D NG)

Thursday, February 27 Morning drive to Carara and Monteverde, the "Cloud Forest Reserve." Overnight at Monteverde Lodge, known for its excellent local and international cuisine. Private hot water baths and jacuzzi. (B L D NG)

Friday, February 28 Today we have a full day to explore the virgin cloud forest of Monteverde, a treasure house of natural phenomena with over 1,500 varieties of orchids and 200 other plant species native to the area. (B L D NG)

Saturday, February 29 Drive back to San Jose. Gala farewell dinner. Overnight at the Cariari Hotel and Country Club. (B L D)

Sunday, March 1 Transfer to the airport and depart for Denver.

This trip will be physically strenuous; it would rank as a 7 or 8 on a scale of 1 to 10.

Cost of Tour: \$1870 based on double occupancy
\$650 airfare, including airport departure taxes
\$125 voluntary contribution to Denver Botanic Gardens

Supplement for single occupancy cannot be guaranteed outside of San Jose and will be calculated on request.

The land price includes all lodging, air, land and water transportation within Costa Rica, meals and special events as specified, admissions, taxes, gratuities and local bilingual naturalist experts. A voluntary \$125 donation to Denver Botanic Gardens is requested. Fully escorted throughout by Barbara Baldwin and Marion Woods, who is a Costa Rica native and speaks Spanish. Valid passport required.

Payment Policy

Space will be strictly limited to 24 persons. \$350 deposit per person required to secure space, which will be cleared in the order that checks are received. Final payment is due December 15, 1991. Payments fully refundable, less unrecoverable costs, if cancellation is received 15 days prior to departure. Cancellations received 14 days or less prior to departure result in full forfeiture unless a replacement can be found.

For more information call Barbara Baldwin, 778-7292, or Andrew Pierce, 370-8002.



Denver Botanic Gardens and Chatfield Arboretum are established and maintained by Denver Botanic Gardens, Inc., for the people of the City and County of Denver and for the general public in cooperation with the Denver Parks and Recreation Department. Denver Botanic Gardens is also grateful for funds from the Scientific & Cultural Facilities District (SCFD), which enable the Gardens to expand services and enhance the quality of programs and exhibits.

Please reserve _____ places for Costa Rica: A Tropical Forest Adventure, February 20 - March 1, 1992.

A deposit check for _____ (\$350 per person) is enclosed.

Name _____ Member I.D. _____

Address _____ City _____ State _____ Zip _____

Phone _____ Spouse or roommates name _____

Single room ☐ yes ☐ no Valid passport ☐ yes ☐ no I prefer ☐ aisle ☐ window plane seat

Credit Card # (for airfare only) _____ ☐ AX ☐ MC ☐ VI Exp. date _____

Cost of tour:

**\$1870 Based on double occupancy • \$650 Airfare, including airport departure taxes
\$125 voluntary contribution to Denver Botanic Gardens**

**Final payment is due by December 15, 1991. • Please make check payable to Denver Botanic Gardens.
Mail to Denver Botanic Gardens • Attn: Andrew Pierce • 909 York Street • Denver, CO 80206**

Gardening Basics

(seven sessions)

Tuesdays, September 3, 17, October 1 & 15

Classroom B

September 10, 24 & October 8
7 to 9 p.m.

Classroom A

This series for gardening newcomers (and others) covers site selection, soils, watering and many other facets of horticulture. Plant lists from the well-illustrated sessions will be available and questions are encouraged — bring your own ideas.

You may enroll for either the entire program or any individual session:

1. Annuals
2. Bulbs
3. Ground covers and grasses
4. Perennials
5. Rock gardening
6. Shade plants
7. Trees and shrubs

Instructor: Andrew Pierce, senior horticulture advisor at the Gardens, is an accomplished grower of perennials and alpine plants. His garden at home has been featured in several national magazines.

Fee: \$56 members/\$68 nonmembers for series, \$8 members/\$10 nonmembers per session

Limit: 18

Landscape Plant Materials for Professionals

(ten sessions)

Wednesdays, September 4, 11, 18, 25, October 2, 9, 16, 23, 30 & November 6
7 to 9:30 p.m.

Morrison Center

This intensive course is designed for professionals, although serious amateurs will also find it stimulating and beneficial.

A thorough examination of approximately 400 native and introduced trees, shrubs, vines and ground covers suitable for our Colorado climate and soils will be presented. You will view over 1,800 slides in the ten-week course.

Instructor: Alan Rollinger, a CSU graduate, is a professional landscape designer specializing in residential planning. He has developed over 800 landscaping projects and has lectured and taught over 20 years.

Fee: \$195 members/
\$235 nonmembers

Limit: 50

DBG's Community Gardens Tour

Saturday, September 7
9:30 to 11 a.m.

Our community gardens are composed of 252 small plots that are a delightful composition of organically maintained and compost-enriched vegetables, flowers and herbs. The gardeners use a variety of techniques, including "French intensive" and "square foot" gardening to increase yields. This year a scarecrow contest will delight all visitors. Come stroll these gardens during their peak to learn how other gardeners make their gardens more productive.

Meet: at the Morrison Center courtyard

Instructor: Judy Elliott is the coordinator of the DBG community gardens program and assists "Dr. Green" by answering gardening questions.

Fee: \$6 members/\$7.50 nonmembers

Limit: 20

Gourmet Garden Oils and Vinegars

Saturday, September 7
9:30 a.m. to 12:30 p.m.
Polly Steele Nature Center
Chatfield Arboretum

Herbed oils and vinegars enhance even the simplest of meals and salads. Learn how to make herb-infused vinegars and oils as well as creative bottle presentation techniques. You will be impressed with your new-found talent and surprised at how fun and easy it is to use these garden products.

Instructor: Karen Winans Morgan is a summer intern at DBG and an avid herb gardener.

Fee: \$20 members/\$24 nonmembers (includes \$8 materials fee)

Limit: 12

Native Grass Walk

Saturday, September 7
9 to 11 a.m.
Chatfield Arboretum

The Gardens' Chatfield Arboretum has been planted with many grasses native to this region. Observe these re-introduced grasses as well as many others that have naturalized at the Arboretum.

Please bring a plant identification book and hand lens if you have them. Wear sturdy walking shoes.

Meet: at the parking lot next to the visitor center.

Instructor: Janet Wingate, Ph.D., has taught botany for DBG, the University of Denver and Metropolitan State College. She specializes in grass identification.

Fee: \$8 members/\$10 nonmembers

Limit: 20

Behind the Scenes Greenhouse Tours

Section I: Saturday, September 7
1 to 2 p.m.

Section II: Sunday, September 29
1 to 2 p.m.

Please indicate your section on the registration form.

Ever wonder what goes on behind the beautiful displays at DBG? This is your chance to view propagation facilities, the service greenhouses and the orchids and bromeliad house—behind-the-scenes collections seldom accessible to the public.

Meet: DBG Lobby Court

Tour Leaders: DBG greenhouse staff members.

Fee: \$4 members/\$5 nonmembers

Limit: 15

Aquatic Plant Walk and Picnic Lunch

Sunday, September 8
11 a.m. to 1:30 p.m.

DBG has the most outstanding water gardens in the country due to our fine collection, abundant sunshine and expert gardening staff. This time of year the hardy and tropical water lilies and other aquatic plants are in full bloom. This stroll will introduce you to the variety of plants that makes the display so dazzling. Bring a sack lunch.

Meet: at the gazebo at the Water Display Garden.

Instructor: Joseph V. Tomocik has been DBG's gardener responsible for maintaining the water gardens since 1982. He has lectured at DBG, Longwood Gardens and Missouri Botanical Garden.

Fee: \$8 members/\$10 nonmembers

Limit: 20

Xeriscape and Plains Garden Walk

Wednesday, September 11
9:30 to 11 a.m.

Both of these gardens suggest inspiring alternatives to traditional styles of gardening for the semi-arid West. The Xeriscape Demonstration Garden includes rare and endangered species of dryland plants. The Laura Porter Smith Plains Garden, an area of native grasses and other prairie plants, recreates seven plant systems of the Colorado High Plains.

Meet: at the picnic tables at the north end of the Xeriscape garden.

Instructor: Karen Trout, DBG gardener, specializes in native plants.

Fee: \$6 members/\$7.50 nonmembers

Limit: 20

Colorful Composites

Saturday, September 14

9 a.m. to 2 p.m.

**Polly Steele Nature Center
Chatfield Arboretum**

The predominant flowering plants seen in late summer and fall are members of the sunflower family.

This hands-on workshop will cover flower structure, family characteristics and the use of a simple teaching key. Come prepared for both indoor and outdoor activities. Please bring a sack lunch, wear good hiking shoes and dress for the weather.

Instructor: Vicki Trammell is an avid botanist who has been a seasonal naturalist at Roxborough State Park.

Fee: \$20 members/\$24 nonmembers

Limit: 15

Drawing from Nature

(six sessions)

Mondays, September 16, 23, 30,

October 7, 21 & 28

(no class October 14)

9:30 a.m. to noon

Classroom B

From living plants to still life settings, from realism to abstraction, learn to see, sketch and draw natural forms and designs and then translate your black and white studies into exciting color. You will receive instruction and demonstration in assorted media and subject matter.

Bring a large sketch pad, soft charcoal and drawing pencils to the first class.

Instructor: Oksana Ross, Ph.D., is an art historian and artist. She has taught at the University of Colorado at Denver, Metropolitan State College and Colorado Women's College.

Fee: \$48 members/\$58 nonmembers

Limit: 20

Watercolor Painting

(five sessions)

Wednesdays, September 18, 25,

October 2, 9 & 16

Section I: 9:30 a.m.- 12:30 p.m.

Section II: 6:30-9:30 p.m.

Classroom B

Please indicate your section on the registration form.

Explore the sparkle and delicacy of watercolor painting while you enjoy the beautiful setting of the Gardens.

This course will cover the basic materials and techniques of watercolors, emphasizing freedom of personal expression.

Come prepared with: a one-inch flat brush, #10 round brush, watercolor paper, tissues, water container, plastic palette and cake or tube watercolors.

Instructor: Boris Shoshensky teaches drawing, watercolor and oil painting at Rocky Mountain College of Art and Design.

Fee: \$60 members/\$72 nonmembers

Limit: 12

Golden Aspens and Their Natural History

(two sessions)

Thursday, September 19

6:30 to 8:30 p.m.

Visitor Center

Chatfield Arboretum

Saturday, September 21

9 a.m. to 2 p.m.

Chatfield Arboretum parking lot

Do you know that aspens are one of the most widely distributed trees in the lower 48 states? You will view slides and learn about the plants and animals associated with Colorado's aspens.

A field trip to an aspen area will show you other characteristics of these colorful trees.

Instructors: Tina Jones, naturalist, has studied Colorado and alpine ecosystems at the University of Colorado Boulder Research Station near Ward. Jim Trammell, Chatfield Arboretum naturalist, will lead the field trip.

Fee: \$13 members/\$16 nonmembers

Limit: 12

Gardening for Seniors — Indoors and Out

Friday, September 20

9 to 11:30 a.m.

Morrison Center

If you, a friend or senior relative is looking for easier ways to plant, harvest or care for a garden, this class will give new or seasoned gardeners ideas for special tools and methods for overcoming physical challenges. Seniors can continue to experience the joys of gardening by eliminating some of the frustrations. Your specific needs or questions will be welcomed.

Instructor: Rebecca Haller, HTM, is the DBG horticultural therapist. She has a strong interest in helping everyone who has the desire to garden.

Fee: \$10 members/\$12 nonmembers

Limit: 20

Fall Composting

**Section I: Saturday, September 21
9:30 to 11:30 a.m.**

Morrison Center

**Section II: Saturday, September 28
9:30 to 11:30 a.m.**

Visitor Center

Chatfield Arboretum

Please indicate your section on the registration form

When leaf litter and yard wastes begin to build up in the backyard, what should you do? Learn how to use these materials to prepare valuable organic compost for next year's gardens and flower beds.

Compost smells good, is rich in organic material and will help your garden grow.

Instructor: Judy Elliott

Fee: \$8 members/\$10 nonmembers

Limit: 20

Japanese Tea Ceremony

Section I: Saturday, September 21

Section II: Sunday, September 22

2 to 3 p.m.

Japanese Garden Tea House

Please indicate your section on the registration form

Based on harmony, respect, purity, tranquility and elegant simplicity, the tea ceremony has for centuries been considered the epitome of Japanese life. This is an opportunity to experience an authentic tea ceremony in the quiet beauty of our Japanese garden.

Instructor: Kathryn Kawakami has done much to inform Denver-area residents and students about the culture of Japan.

Fee: \$4 members/\$5 nonmembers

Limit: 15

Harvest Moon Picnic Concert

Sunday, September 22

5:30 to 8:30 p.m.

Chatfield Arboretum

Bring your picnic supper and enjoy the sights and sounds of Chatfield Arboretum and the Littleton String Quartet. The harvest moon, the full moon nearest the autumnal equinox, will rise soon after sunset and help usher in the festive spirit of the evening. The Littleton String Quartet will play light classical, popular and sentimental favorites, such as "Harvest Moon" and "Moonlight on My Pillow" from 5:30 to 6:30 p.m. Moon lore and stories will be presented along with guided moonlight walks from 6:30 to 8:30 p.m.

Leader: Jim Trammell

Fee: \$5 members/\$6 nonmembers

Limit: None

Overwintering Your Aquatic Plants

Sunday, September 22
1 to 3 p.m.
Classroom A

What should you do to keep your aquatic plants over winter? If you have a collection, don't dispose of it—save it. Learn the winter care of hardy and tropical water lilies, lotus and emergent plants.

Instructor: Joseph V. Tomocik
Fee: \$8 members/\$10 nonmembers
Limit: 20

Nature and Landscape — A Quiltmaking Lecture

Friday, September 27
7 p.m.
John C. Mitchell II Hall

This slide lecture will inspire and entertain quilters and non-quilters alike. Its theme is nature's inspiration in quiltmaking, and the slides will illustrate nature's geometry. You will also learn how the fabric, batting and stitches you choose can have an important effect on the overall design.

Speaker: Nancy Halpren has taught and lectured on quiltmaking for over 15 years. Her prize-winning work has been featured extensively in national and international shows.
Fee: \$6 members/ \$7.50 nonmembers in advance; \$7.50 members/\$10 nonmembers at the door
Limit: 150

For Kids: City Canopies

Saturday, September 28
9 a.m. to noon
For Ages 8 to 10
Classroom B

Autumn is a time to look skyward in Denver. We admire the clear blue skies, we thrill at the variety of colors and we watch for the first snowflakes. Street canopies are alive with the treetop traffic of animals preparing for winter. Leaves are changing, soon to drift away and woody seeds are falling to the ground. Walk the gardens and search for signs of animals. Investigate the hidden colors of autumn leaves. Learn about where the seeds go before the snow blows.

Instructor: Carol Knepp is currently studying elementary education and has worked in the education department at Denver Botanic Gardens for eight years. She has taught natural history subjects at Gove Community School and the Gardens.
Fee: \$16 members/\$18.50 nonmembers (includes \$4 for materials)
Limit: 12

Ornamental Grasses

Section I: Monday, September 30
3 to 5 p.m.
Classroom A
Section II: Sunday, October 6
1 to 3 p.m.
Classroom C

Please indicate your section on the registration form.

The graceful beauty of ornamental grasses is sweeping through the landscape imaginations of the country. Slides and a tour familiarize you with the best varieties, cultural requirements and plant sources. Particular attention will be given to the many varieties displayed at Denver Botanic Gardens.

Instructor: Joseph V. Tomocik
Fee: \$8 members/\$10 nonmembers
Limit: 20

Beginning Bonsai

(four sessions)
Thursdays, October 3, 10, 17 & 24
7:30 to 9:30 p.m.
Classroom B

This popular introductory course will cover the history and cultural techniques of bonsai—creating dwarf trees. You'll learn styling, training, potting and caring for bonsai.

You will take home a completed new bonsai. All materials are provided.
Instructor: Keith Jeppson, past president of the Rocky Mountain Bonsai Society, is a hobbyist with 17 years' experience. Harold Sasaki is a commercial grower with 18 years of experience. Both are lively, capable, popular teachers.
Fee: \$56.50 members/\$62.50 nonmembers (includes \$22 for materials)

Limit 15

The Fall Garden

Thursday, October 3
7 to 9 p.m.
Classroom C

Labor Day doesn't have to be the end of your gardening pleasure, with only autumn raking to look forward to. Many plants save their best for the end of the season: flowers of fall-blooming perennials, seed heads of grasses, foliage of shrubs and trees and—with cooler nights—a wonderful late flush of many annuals and roses. Join this class to meet the plants that will help make your garden an all-season success.

Instructor: Lauren Springer is a nationally known horticultural author and a popular instructor who co-authors the weekly "Front Range Gardeners" for the Denver Post.
Fee: \$8 members/\$10 nonmembers
Limit: 60

Forcing Bulbs

Saturday, October 5
9:30 to 11 a.m.
Morrison Center

The process of encouraging spring-flowering bulbs to bloom by other than naturally occurring conditions is called forcing. Learn this procedure so that you can enjoy an assortment of spring blossoms indoors while it is cold and dreary outside.

You will pot several types of bulbs during class to take home to enjoy during the winter holidays.
Instructor: DBG education director Patricia Patchuta is a horticulturist and experienced teacher.
Fee: \$14 members/\$16 nonmembers (includes \$8 for materials)

Limit: 15

Rocky Mountain Arsenal Field Trip

Sunday, October 6
1 to 3:30 p.m.

Learn about the history of Rocky Mountain Arsenal and the current plans for cleaning up contamination from past production and storage of weapons and chemicals. See how this 27-mile island in a sea of civilization is coming back to life. Expect to see bald and golden eagles, hawks, coyotes, mule deer and white-tailed deer.

Meet: 1 p.m. at the west arsenal gate, 72nd Avenue and Quebec Street in Commerce City. A bus will meet you there and take you to the arsenal. No private cars are permitted on the grounds.

Instructor: A park ranger or wildlife biologist from the U.S. Fish and Wildlife Service will lead the tour.

Fee: No charge, but advance reservation is required. Use the registration form.
Limit: 70

Winterize Your Rose Garden

Sunday, October 6
Classroom B
1 to 3 p.m.

Learn how to prepare your roses for winter. This class will include discussion and instruction as well as a tour (weather permitting) of the rose gardens at DBG.

Instructor: All-America Rose Selection judge Joan Franson is a member of the Denver Rose Society and regularly teaches rose gardening and arranging.
Fee: \$8 members/\$10 nonmembers
Limit: 15

Registration

Class fees must be paid in advance by credit card, check or money order made out to Denver Botanic Gardens. Phone registration will be accepted for credit card payment only. Space in many classes is limited. You will be enrolled in class the day your payment is received. All classes are subject to a minimum of ten students. For further information, please call 370-8020.

A Bounty of Bulbs

Mondays, October 7 & 14

7 to 9 p.m.

**Classroom C
(two sessions)**

The best bulbs for Colorado growing are presented in this two-part class. Learn to extend the season of bulbs in the garden from the first crocus and snowdrops of late winter onward. Learn about unique and neglected species, as well as superior, long-lived varieties of tulips, narcissus, lilies, alliums and fritillaria. The focus will be on incorporating bulbs into perennial beds in both sun and shade, as well as for problem areas. Tender bulbs add season pizzazz in borders and containers.

Instructors: Popular instructors Lauren Springer and Rob Proctor write the weekly "Front Range Gardeners" column for the Denver Post, and are nationally known horticultural authors.

Fee: \$8 members/\$10 nonmembers

Limit: 60

Family Tree Walk At Fairmount Cemetery

Sunday, October 13

1 to 3 p.m.

During the summers of 1890 and 1891 over 4,000 trees (including sycamores, silver maples, Kentucky coffee trees, pines and seven species of oaks) were planted at Fairmount Cemetery. Observe these as well as more unusual trees such as scarlet oak and yellow buckeye while enjoying the fall colors.

Children 8 and older are welcome to attend these walks; they'll be given special tree guides.

Leaders: Dr. William G. Gambill, Jr., director emeritus and taxonomist at DBG, is a former botany and biology professor. Carol Knepp will assist him.

Meet: 1 p.m. at the Ivy Chapel east of the entrance of Fairmount Cemetery, located at East Alameda and Quebec streets in Denver.

Fee: \$11 members/\$13 nonmembers (including \$3 for *Trail of Trees*, a 64-page, illustrated tree guide to Fairmount Cemetery).

Houseplant Horizons: Orchids & Bromeliads

Saturdays, October 19 & 26

9 to 11:30 a.m.

**Classroom A
(two sessions)**

These fascinating tropical plants that grow above the ground, perched in trees, present special challenges to houseplant gardeners. They have acquired the reputation of being difficult; you'll find that they're merely different. The class will cover special needs of these and other tree-dwelling epiphytes. A hands-on demonstration in potting and propagation will add interesting plants to your collection.

Instructors: DBG greenhouse supervisor Gary Davis has many years experience with bromeliads and orchids. Paula Ogilvie is the DBG adult education specialist and past president of the Denver Orchid Society.

Fee \$25 members/\$27 nonmembers (includes a \$15 materials fee)

Limit: 15

Tropical Rainforest Ecology and Destruction

Tuesday, October 22

7 p.m.

John C. Mitchell II Hall

The fate of the rainforest depends on our understanding the consequences of destruction and the underlying ecological and biological processes which shape the forest. This slide-illustrated talk shows the rainforest of Central and South America. Learn about the different types of forests found within the rainforest areas as well as how the forests are able to regenerate themselves after disturbances by man.

Lecturer: Robert L. Sanford, Jr., Ph.D., has participated in research projects in Brazil, Costa Rica, Puerto Rico and Hawaii. He is currently Academic Coordinator of the Program for Ecological Studies at Colorado State University.

Fee: \$4 members/\$5 nonmembers

Bird Personalities

Wednesdays, October 23, 30 & November 6

6:30 to 8:30 p.m.

**Visitor Center
Chatfield Arboretum**

Become more than just a bird lister! Learn the hows and whys of territorial, migration, feeding, denning and sun-bathing behaviors. Find out why some woodpeckers disperse ants all over their bodies. Learn how ocean-dwelling birds compensate for the large amount of salt they ingest daily. What enables Colorado's broad-tailed hummingbird to fly backward? You will marvel at how snipe and woodcocks make their courtship sounds, in addition to learning so much more in this class.

Instructor: Tina Jones

Fee: \$8 members/\$10 nonmembers

Limit: 25

Clinical Options in Horticultural Therapy

Friday, October 25

8 a.m. to 5 p.m.

Morrison Center

This workshop will introduce you to the many facets of horticultural therapy, highlight some exemplary programs in this region and provide guidance for using plants and gardening to enhance human well-being.

Instructor: Rebecca Haller

Fee: \$34 members/\$40 nonmembers

For Kids: Under the Canopy—Rainforest in a Bottle

Saturday, October 26

9 a.m. to noon

For ages 8 to 11

Classroom B

Explore the world of the tropical rain forest – home of brilliant butterflies and vampire bats. Discover plants that clamber and climb and orchids so beautiful they are called jungle jewels.

Learn about animals who call tank plants their home and see how the jungle canopy is like a grocery store. Sample savory treats such as mango, papaya, chocolate and vanilla and make a rainforest in a bottle to take home.

Instructor: Carol Knepp

Fee: \$18 members/\$20.50 nonmembers (includes \$6 materials fee)

Limit: 12



Autumn Flower Arranging

Monday, October 28
10 a.m. to 2 p.m.
Morrison Center

Create naturalistic floral arrangements full of the warm, inviting colors of fall. You are encouraged to begin now to gather and dry grasses and other materials to include in your arrangements.

You may cut some plants at the Gardens during the class (depending on the weather) and others will be purchased and provided. Please bring your own containers and flower snips as well as a container (small bucket) for holding water and fresh flowers. A piece of floral foam or needle-point flower holder and wire cutters or pruning shears will be useful. Bring a lunch to class.

Instructor: An experienced floral designer and teacher, Julia Dobbins has studied arranging in both the United States and England.
Fee: \$31 members/\$35 nonmembers (includes \$15 for flowers)
Limit: 12

For Kids: Plantenstein

Saturday, November 2
Section I: For ages 6 to 8
9 to 11 a.m.
Section II: For ages 8 to 10
12:30 to 2:30 p.m.
Classroom A

Make whole, living plants from parts, it's easy if you know what to do. This class goes beyond the avacado tree and is perfect for budding gardeners. Sprout seeds on sponges, grow new plants from old ones in water and in the air and learn about pups. Take home as many new plants as you can carry.

Instructor: Carol Knepp
Fee: \$13 members/\$15 nonmembers (includes a \$5 for materials)
Limit: 12

The Case of the African Violet

Sunday, November 10
1 to 3 p.m.
Classroom B

Learn basic African violet care: lighting, feeding, watering, temperature control, cleaning, soils, pests and propagation. You may also bring a couple of your African violets to this hands-on workshop to learn why they won't grow—or why they have grown too tall.
Bring a clean, sharp knife and, if you wish, a pest-free plant or two from your own collection. The instructor will provide cuttings.

Instructor: Debbie Griffith has been growing African violets for 13 years. She is president of the Rocky Mountain African Violet Council and a senior show judge.
Fee: \$14 members/\$16 nonmembers (includes \$4 for materials)
Limit: 20

Cooking with Judith Fine-Sarchielli

(Please bring a small chef's knife, paring knife, apron and a cutting board if you wish to participate in the hands-on part of these classes.)
Instructor: An accomplished chef, caterer, food consultant, teacher and designer, Judith Fine-Sarchielli lived in Italy for 15 years.
Fee for each class: \$16.50 members/\$20 nonmembers (includes \$4.50 for materials)
Limit for each class: 12

Classic Tuscan Entrees

Sunday, September 8
1 p.m. to 3:30 p.m.
Kitchen next to DBG Library
These centuries-old Sarchielli family recipes result in refreshing and tantalizing entrees for buffets, dinner parties, *al fresco* dining and family brunches, lunches and dinners: roast chicken with rosemary, cannelloni beans in tomato sauce, roast potatoes with herbs and *saltimbocca alla Romana* (veal birds).



Registration Form for Classes, Field Trips and Lectures

Enclosed is \$ _____ for the following classes.
Name and section of classes:

Name _____
Member of Denver Botanic Gardens ☐ Yes ☐ No
Member ID _____
(on top line of newsletter address label)
Address _____
City _____ Zip code _____
Daytime Phone _____ Evening Phone _____
☐ Cash ☐ Check ☐ VISA ☐ MC
_____ Exp. _____
Signature _____

Magical Mushrooms

Saturday, September 21
1:00 to 3:30 p.m.
Morrison Center
Mushrooms are an international taste delight. You can experience a variety of exotic fungi in recipes from Colorado, Italy, Asia and South America.

Tropical Taste Treats

Sunday, October 6
1 to 3:30 p.m.
Morrison Center
Tropical rainforests provide many exotic plants enjoyed in today's cuisine. Learn more about the origins and uses of these tropical plants, and how to make Indonesian curry to serve with a tropical fruit dessert from Africa.

Gift Herbs & Spices

Saturday, October 19
9:30 a.m. to noon
Morrison Center
Holiday gift-giving with a flair. Create your own herb and spice-scented oils, vinegars, and cordials. These are unique year-round gifts.

Amazon Delights

Wednesday, October 23
6:30 to 9 p.m.
Kitchen next to DBG Library
Learn to make these tropical treats from South America: *Carapulcar*, a chicken casserole from Peru, and *Mousse de Castanhas de Caju e Chocaloate*, a chocolate cashew mousse from Brazil.

Class locations:
Classrooms A, B and C are at 1005 York Street, Denver.
The DBG Morrison Horticultural Demonstration Center is at 2320 East 11th Avenue, Denver.
Chatfield Arboretum is at 9201 South Carr Street, Littleton (south on Wadsworth Boulevard 0.3 mile past C-470, west onto Deer Creek Canyon Road).

SEPTEMBER

Coming Up

Classes are in *italics*. Asterisk* indicates the first meeting of a class with more than one session.

September

- 1 Mens Garden Club Plant & Produce Sale
- 3 * *Gardening Basics*
- 4 * *Landscape Plant Materials for Professionals*
- 6 "Fete des Fleurs"
- 7 DBG's Community Gardens Tour
- 7 Gourmet Garden Oils and Vinegars
- 7 Native Grass Walk
- 7 Behind the Scenes Greenhouse Tour
- 8 Aquatic Plant Walk and Picnic Lunch
- 11 Xeriscape and Plains Garden Walk
- 14 Members' Plant Dividend Day
- 14 Colorful Composites
- 14 & 15 Gloxinia, Gesneriad Show
- 16 * *Drawing from Nature*
- 16 Free Day
- 18 * *Watercolor Painting*
- 19 * *Golden Aspens and Their Natural History*
- 20 Gardening for Seniors—Indoor and Out
- 21 Fall Composting
- 21 Japanese Tea Ceremony
- 22 Harvest Moon Picnic Concert
- 22 Overwintering Your Aquatic Plants
- 22 Japanese Tea Ceremony
- 27 Nature and Landscape—A Quiltmaking Lecture
- 28 For Kids: City Canopies
- 28 Fall Composting
- 29 Behind the Scenes Greenhouse Tour
- 30 * *Ornamental Grasses*



Late-summer beauty at the Gardens — a waterlily blossom floats serenely in one of the Gardens' many pools.

Stop by for Your Free Plant! Members' Plant Dividend Day Saturday, September 14

Denver Botanic Gardens, Inc.

909 York Street
Denver, Colorado 80206
303-331-4000 • 370-8032 TDD

Address correction requested

TIME VALUE

September 1991

Plant
Societies
at DBG

Many plant and horticultural societies meet regularly at DBG. For their meeting times or to contact a representative of any group in which you are interested, call Denver Botanic Gardens during business hours: 331-4000, 370-8032 TDD.

Non Profit Org.
U.S. Postage
PAID
Permit No. 205
Denver, CO





Modern Glass Joins Antique Prints for Botanical Treasures VI

Botanical Treasures, Denver Botanic Gardens' annual fall exhibition and sale of antique botanical prints, is Friday through Sunday, November 1-3.

Presented in cooperation with Turner Art Gallery, this year's show, number six, gains an added elegant dimension with the introduction of original glass works from Pismo, a natural arts gallery in Cherry Creek North. The glass pieces, mostly vases, are by prominent local and national artists. They are worked with several techniques: hand-blown, slumped or fused. Many of the pieces will be used as vessels for floral arrangements that will grace the exhibit.

Turner Art Gallery's large selection of botanical and other natural history prints will certainly appeal to botanical art collectors. The hand-colored engravings and lithographs were originally pages from botanical books or magazines, such as Curtis' *Botanical Magazine*, or plates in elaborate portfolios. Most were published in limited editions for wealthy subscribers in the 18th and 19th centuries. "Botanical Treasures" will display them in a manner that will reveal their charm and usefulness as accessories in sophisticated home decoration.

Several activities are scheduled during the event. At 10 a.m. Saturday and Sunday, botanical artist Mike Eagleton will demonstrate the art of modern botanical illustration. Saturday afternoon at 2 p.m., there will be discussions of the glass blowing art by two Pismo artists. Floral designer Bill Nolde will create arrangements, accompanying his work with entertaining commentary on all three days. Also throughout the weekend, you can view the beautiful and intriguing videotape *Banks' Florilegium: The Flowering of the Pacific*. On Sunday afternoon at 2, Turner Art Gallery will demonstrate various styles for matting and framing botanical prints and original art.

Regular gate admission (\$3 for adults) is the only fee for nonmembers. Members enter free. Times for the exhibit and sale are 9 a.m. to 4:45 p.m. daily.

If you'd like more information call the special events office, 370-8015.

Green Thumb



NEWS

Denver Botanic Gardens October 1991 Number 91-10

George Kelly, First Director of DBG, Dies

George Kelly, a founding trustee of Denver Botanic Gardens, died August 10 at his home near Cortez in southwestern Colorado.

For over 50 years Mr. Kelly was the region's most active and influential proponent of a horticulture specifically adapted to the Rocky Mountains and High Plains. "Rocky Mountain horticulture is different" was his often-repeated motto—he used the credo as the title of his first book.

Along with other far-sighted nurserymen, botanists, landscape designers, amateur gardeners and civic leaders active in the Colorado Forestry and Horticulture Association, he helped charter "Denver Botanical Garden" in February 1951. Along with Kelly, the charter board members were Mr. Roger Arnold, Mrs. Charlotte Barbour, Mrs. Myron K. Blackner, Mr. S. R. DeBoer, Mrs. John (Gladys Cheesman) Evans, Mr. William H. Ferguson, Mr. Fred Johnson, Mrs. George (Anna) Gary, Dr. Moras Shubert, Mr. Hudson Moore, Jr., Mr. Robert More and Mrs. James B. (Ruth Porter) Waring. Mrs. Waring and Dr. Shubert still serve on the board as life trustees.

Kelly soon resigned the board to become the Gardens' first director and to guide development at its first head-

quarters, Horticulture House at 1355 Bannock Street, and the first plantings in City Park near Colorado Boulevard.

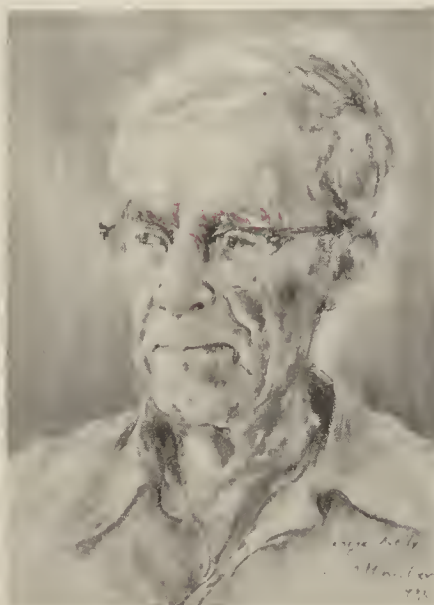
Mr. Kelly was the author of 10

books and countless articles on horticulture and on useful plants native to the Rocky Mountain West. He was the first editor of the *Green Thumb Magazine* (now *Mountain, Plain and Garden*) and his articles appeared regularly in *The Denver Post* and the *Rocky Mountain News*.

When he and his wife Sue moved to the Four Corners area in the 1960s he set about planting what amounted to his own botanic garden.

In his later years he received wide recognition for his life-long horticultural and literary efforts. In 1982 the American Association of Nurserymen honored him for his writing and service to the industry. In 1990 Fort Lewis College in Durango awarded Mr. Kelly an honorary bachelor's degree in biology.

Denver Botanic Gardens would be pleased to receive memorials in Mr. Kelly's name.



Inside:

Garden Club Anniversary
page 2

Pumpkin Festival
page 3

Tempel Lecture
page 3

Classes
pages 4-7

Coming Up
page 8

Autumn visitors
will enjoy seed
pods of the
golden-rain tree.



Library Open Sundays

Thanks to funds from the SCFD, the Helen Fowler Library is now open seven days a week. With the addition of Sunday library hours, members who work during the week will find added convenience in using the facility. The collection is the most complete botanical and horticultural reference in the Rocky Mountain region.

Hours Monday through Saturday are 10 a.m. to 4 p.m. On Sunday the library now is open noon to 4 p.m.

Tributes

In honor of Newell Grant
Cecily C. Garnsey

In honor of the 50th wedding anniversary of
Mr. and Mrs. Willett Moore
Pat and Lorna Westfeldt

In honor of the 50th wedding anniversary of
Chuck and Faye Schayer
Mr. and Mrs. Robert Appel

In honor of the 102nd birthday of
Ruth Porter Waring
Mrs. John Brooks, Jr.
Ms. Caroline B. Rickenbaugh
Mrs. Susan B. Sheridan

In memory of
Mrs. Samuel (Marjorie) Childs
Virginia H. Broun
Dorothy T. Phelps
Marjorie G. Temple

In memory of John M. Hodgson
Janet Wierman

In memory of Marjorie Shepherd
Grant and Lucile B. Downer
Ms. E. Sydney Glick
Pete and Bernice Peterson
Pat and Omar Quade
Margaret Wallace
Esther L. Witte

In memory of Mr. Robert S. Stitt
Janet Wierman

Garden Club Celebrates 75th Year

The Garden Club of Denver, one of the most faithful and forceful organizations supporting the Gardens, is celebrating its 75th anniversary.

As part of its year-long celebration, the group heard special guest speaker Mrs. Leonard Wood, Jr., of Hillsborough, California, regional director of the Garden Club of America, at its September meeting, held in the gazebo of DBG's Home Demonstration Garden.

Among its many projects, the club underwrote construction of the Home Demonstration Garden and its members contribute regularly to its maintenance. It also supported the design of the Low Maintenance Garden and helped purchase the interpretive signs for both gardens.

The Garden Club of Denver was helpful in the founding of Denver Botanic Gardens, with two of the clubs founders, Mrs. Anna Garrey and Mrs. Ruth Porter Waring, also founding trustees of the Gardens.

Rain Forest Activities at DMNH, DBG

Denver Botanic Gardens and Denver Museum of Natural History have several October events in connection with Rain Forest Month. The Tropical Rain Forest: A Disappearing Treasure is a major traveling exhibit by the Smithsonian Institution at the Museum in City Park. It runs through December 8.

Denver Botanic Gardens will present a lecture by Robert Sanford, Jr., at 7 p.m., Tuesday, October 22, in John C. Mitchell II Hall, at 1005 York Street. Dr. Sanford has researched the rain forests of Brazil, Costa Rica and Puerto Rico; he will illustrate his authoritative talk with slides from his studies.

Mexican 'Day of the Dead'

Denver Botanic Gardens and Denver Museum of Natural History are collaborating with members of the Hispanic community to celebrate All Souls' Day in the Mexican fashion—as *El Dia de los Muertos*, the Day of the Dead.

Special activities are planned October 31 to November 2 that reflect the customs of this popular Mexican holiday. Central to the rituals are spirits of the dead, who visit the living as honored guests. It is a time for reverence, but also occasion for music, food and merrymaking.

The Gardens' activities will be both festive and educational in nature. Look for more information in the November issue of the *Green Thumb News*. Members of the Gardens will also receive a special mailing on the event.

Employee of the Month

Receptionist Donna Cassidy has been named employee of the month for September.

Donna maintains her decorum, good humor and ability to be helpful and pleasant to all individuals with whom she has contact when they call or visit the Gardens. She was recognized, especially, for her outstanding contributions during the transition to our new telephone system.

Green Thumb News Number 91–10 October 1991

Published monthly by
Denver Botanic Gardens
909 York Street
Denver, Colorado 80206-3799

Edited by Larry Latta, 370-8033

Deadline for November issue:
September 20

Subscription to this newsletter is a benefit of membership in Denver Botanic Gardens. For information please write the membership department at the above address or call 370-8029, or 370-8032 TDD.

Denver Botanic Gardens and Chatfield Arboretum are established and maintained by Denver Botanic Gardens, Inc., for the people of the City and County of Denver and for the general public in cooperation with the Denver Parks and Recreation Department.

Denver Botanic Gardens is also grateful for funds from the Scientific and Cultural Facilities District (SCFD), which enable the Gardens to expand services and enhance the quality of programs and exhibits.



The Gardens' Pumpkin Festival has expanded in 1991 to include several pumpkin events at Chatfield Arboretum, Denver Botanic Gardens on York Street and United Bank Center.

The Pumpkin Patch is truly a day of "for-the-whole-family" activities Saturday, October 12, at Chatfield Arboretum. Thousands of the golden symbols of autumn have been grown at the Arboretum for this event. When you get there, pick out a pumpkin (a donation is much appreciated and will help support this and other family outings at the Arboretum), and join a class on safe, creative pumpkin carving or prepare your beauty for the painted pumpkin contest.

You can also visit haunted woods, take a horse-drawn hayride, stroll the nature trails, catch a puppet show, listen to ghost stories or attend a nature program. Exhibits of dried flowers, beeswax, honey and other natural products will be set up for your enjoyment.

Saturday and Sunday, October 26 and 27, the festival really gets spooky, with the third annual Pumpkin Art Contest and Display at Denver Botanic Gardens.

The pumpkin artistry submitted for this activity will amaze you and surely fire your own creative urge. If you haven't seen the display in the past, you must do so. This DBG activity, sponsored by United Banks and Pumpkin Ltd., has redefined what pumpkin carving is all about. One entry last year was so beautifully unique the judges were obliged to create a new category, on the spot, just for it.

But don't be intimidated—submit your own creative effort. There are cash prizes in the categories of faces, animals and themes. Bring your carved pumpkin to John C. Mitchell II Hall Saturday morning. All entries will be displayed in a suitably haunting setting designed by David Barnes of Scenographics.

Outstanding examples from this display will be transferred to United Bank Center, 1700 Broadway, to haunt the thousands of Denverites who visit this beautiful indoor space. They will be exhibited at the center Tuesday through Thursday, October 29-31, Halloween.

For more information on any of these activities call the special events office, 370-8015.

Party Date Changes

The DBG membership subcommittee has announced a change of date for the members-only Herald the Season party. Mark your calendar on Sunday, December 8. Details of the festivities are forthcoming.



**Pumpkin Festival
Schedule of Events**

The Pumpkin Patch
Sat., Oct. 12
Chatfield Arboretum
10 to 4

Pumpkin Art Contest & Display
Sat. & Sun., Oct. 26 & 27
Denver Botanic Gardens
Contest Entry: Sat., 9 to noon
Display: Both days, 9 to 4:45

Pumpkin Art Display
United Bank Center
Tues.-Thurs., Oct. 29-31
7 to 7

African Violet Sale on Colorado Free Day

The Rocky Mountain African Violet Council will hold its annual fall sale at the Gardens on a free day, Saturday, October 19. There will be no admission fee to the Gardens or to the sale, either for members or for nonmembers who are residents of Colorado.

Thousands of African violets and other gesneriads will be offered by members of the various organizations that make up the council. A portion of the proceeds will be turned over to the Gardens to support its programs.

Public hours of the event are 9 a.m. to 4:45 p.m. For more information call Janice Sorensen, 220-8799

'Aspen' Set for 1991 Tempel Lecture

The 1991 Carl Tempel Wildflower Lecture will be a team presentation by author Ann Zwinger and photographer Barbara Sparks. It is based on their book *Aspen—Blazon of the High Country*. Following the cycle of the seasons, their lecture is a journey of discovery through the West in search of quaking aspen.

This joint reading and slide show is 7 p.m. Wednesday, November 6, in John C. Mitchell II Hall. It is free and open to the public.

The Carl Tempel Wildflower Lecture Series was inaugurated in 1979 to honor Major General Carl W. Tempel, a noted photographer and wildflower enthusiast. His wife Ruth Tempel is a long-time volunteer in the DBG gift shop.

Ann Zwinger is the author of a dozen books, among them *Land Above the Trees* and the Burroughs Medal winner *Run, River, Run*. Barbara Sparks is well known for her magnificent photography of the Southwest and Rocky Mountains.

'Colorado Carnival' Denver Orchid Show of the Decade

Colorado Carnival, the American Orchid Society show hosted by the Denver Orchid Society, will be the orchid show of the decade for most Denverites. The last national show held in the region was in 1975.

Dedicated to the 40th anniversary of Denver Botanic Gardens, Colorado Carnival runs Friday, October 11, through Sunday, October 13, at the Hyatt Regency, Tech Center. Members of the Gardens may see the show for half-price, or \$2.

The Orchid Society has also invited members to attend the preview party at 8 p.m. Thursday evening. The \$40 admission allows you to view the show early, enjoy hors d'oeuvres and a cash bar and shop the booths of 15 commercial orchid plant growers and two artists of orchid-related works.

The party registration fee also includes seven orchid lectures Friday and Saturday that will cover such topics as orchid culture, breeding trends, genetics, and the natural histories of several divisions of the orchid family. DBG members interested in this fascinating group of plants are urged to attend the preview and lectures.

If you're interested please call show chairman Sue Eloie, 936-5508.

Gift Shop Offers Holden Reproductions

For the orchid fancier who doesn't yet have everything, the DBG Gift Shop offers lovely reproductions of English creamware with orchid images by Samuel Holden. Please visit the shop to see these plates and other fine china.



Beginning Bonsai

(four sessions)

Thursdays, October 3, 10, 17 & 24

7:30 to 9:30 p.m.

Classroom B

This popular introductory course will cover the history and cultural techniques of bonsai—creating dwarf trees. You'll learn styling, training, potting and caring for bonsai.

You will take home a completed new bonsai. All materials are provided.

Instructor: Keith Jeppson, past president of the Rocky Mountain Bonsai Society, is a hobbyist with 17 years' experience. Harold Sasaki is a commercial grower of 18 years. Both are lively, capable, popular teachers.

Fee: \$56.50 members/\$62.50 nonmembers (includes \$22 for materials)

Limit: 15

The Fall Garden

Thursday, October 3

7 to 9 p.m.

Classroom C

Labor Day doesn't have to be the end of your gardening pleasure with only autumn raking to look forward to. Many plants save their best for the end of the season: flowers of fall-blooming perennials, seed heads of grasses, foliage of shrubs and trees and—with cooler nights—a wonderful late flush of many annuals and roses. Join this class to meet the plants that will help make your garden an all-season success.

Instructor: Lauren Springer is a nationally known horticultural author and a popular instructor. She co-authors the weekly Front Range Gardeners in *The Denver Post*.

Fee: \$8 members/\$10 nonmembers

Limit: 60

Forcing Bulbs

Saturday, October 5

9:30 to 11 a.m.

Morrison Center

The process of encouraging spring-flowering bulbs to bloom by other than naturally occurring conditions is called forcing. Learn this procedure so that you can enjoy an assortment of spring blossoms indoors while it is cold and dreary outside.

You will pot several types of bulbs during class to take home to enjoy during the winter holidays.

Instructor: DBG education director Patricia Pachuta is a horticulturist and experienced teacher.

Fee: \$14 members/\$16 nonmembers (includes \$8 for materials)

Limit: 15

Ornamental Grasses

Sunday, October 6

1 to 3 p.m.

Classroom C

The graceful beauty of ornamental grasses is sweeping through the landscape imaginations of the country. Slides and a tour will familiarize you with the best varieties, cultural requirements and plant sources. Particular attention will be given to the many grasses displayed at Denver Botanic Gardens.

Instructor: Joseph V. Tomocik has maintained DBG's water garden since 1982. He has lectured at DBG, Longwood Gardens and Missouri Botanical Garden.

Fee: \$8 members/\$10 nonmembers

Limit: 20

Rocky Mountain Arsenal Field Trip

Sunday, October 6

1 to 3:30 p.m.

Learn about the history of Rocky Mountain Arsenal and the current plans for cleaning up contamination from past production and storage of weapons and chemicals. See how this 27-square-mile island in a sea of civilization is coming back to life. Expect to see bald and golden eagles, hawks, coyotes, mule deer and white-tailed deer.

Meet: 1 p.m. at the west Arsenal gate, 72nd Avenue and Quebec Street in Commerce City. A bus will meet you there and take you into the Arsenal. No private cars are permitted on the grounds.

Instructor: A park ranger or wildlife biologist from the U.S. Fish and Wildlife Service will lead the tour.

Fee: No charge, but advance reservation is required.

Limit: 70

Winterize Your Rose Garden

Sunday, October 6

Classroom B

1 to 3 p.m.

Learn how to prepare your roses for winter. This class will include discussion and instruction as well as a tour (weather permitting) of the rose gardens at DBG.

Instructor: All-America Rose Selection judge Joan Franson is a member of the Denver Rose Society and regularly teaches rose gardening and arranging.

Fee: \$8 members/\$10 nonmembers

Limit: 15

A Bounty of Bulbs

Mondays, October 7 & 14

7 to 9 p.m.

Classroom C

(two sessions)

The best bulbs for Colorado growing are presented in this two-part class. Learn to extend the season of bulbs in the garden from the first crocus and snowdrops of late winter onward. Discover unusual and neglected species, as well as superior, long-lived varieties of tulips, narcissus, lilies, alliums and fritillarias. The focus will be on incorporating bulbs into perennial beds in both sun and shade, as well as for problem areas. Tender bulbs add seasonal pizzazz in borders and containers.

Instructors: Popular instructors Lauren Springer and Rob Proctor write the weekly Front Range Gardeners column for *The Denver Post*, and are nationally known horticultural authors.

Fee: \$8 members/\$10 nonmembers

Limit: 60

Family Tree Walk At Fairmount Cemetery

Sunday, October 13

1 to 3 p.m.

During the summers of 1890 and 1891 over 4,000 trees including sycamores, silver maples, Kentucky coffee trees, pines and seven species of oaks were planted at Fairmount Cemetery. Observe these, as well as more unusual trees, such as scarlet oaks and yellow buckeyes, while enjoying the fall colors.

Children 8 and older are welcome to attend these walks; they'll receive special tree guides.

Leaders: Dr. William G. Gambill, Jr., director emeritus and taxonomist at DBG, is a former botany and biology professor. Carol Knepp will assist him.

Meet: 1 p.m. at the Ivy Chapel, east of the entrance of Fairmount Cemetery at East Alameda and Quebec streets.

Fee: \$11 members/\$13 nonmembers (including \$3 for *Trail of Trees*, a 64-page, illustrated tree guide to Fairmount Cemetery).

Houseplant Horizons: Orchids & Bromeliads

(two sessions)

Saturdays, October 19 & 26

9 to 11:30 a.m.

Classroom A

These fascinating tropical plants, which grow above the ground perched in trees, present special challenges to houseplant gardeners. They have acquired the reputation of being difficult; you'll find that they're merely different. The class will cover special

needs of these and other tree-dwelling epiphytes. A hands-on demonstration in potting and propagation will add interesting plants to your collection.

Instructors: DBG greenhouse supervisor Gary Davis has many years' experience with bromeliads and orchids. Paula Ogilvie is the DBG adult education specialist and past president of the Denver Orchid Society.

Fee \$25 members/\$27 nonmembers (includes a \$15 materials fee)

Limit: 15

Pioneer Graves at Fairmount Cemetery

Saturday, October 19
10 a.m. to noon

To set you in the mood for Halloween spooks and goblins, glimpse a slice of Denver history by touring a cemetery.

This guided tour will focus on one of the oldest areas of the 250-acre cemetery, including millionaires' row, the burial site of many prominent Denver citizens.

Meet: In parking lot below Ivy Chapel.

Guides: Jo An Cullen, public relations officer, and Fairmount Cemetery staffers.

Fee: None, but preregistration is required.

Limit: None

How to Use Your Greenhouse

(three sessions)
Mondays, October 21, 28 & November 4
7 to 8:30 p.m.
Morrison Center

Many homeowners build a greenhouse only to discover they are unable to have the plants they thought would so love to grow in this new home. Learn to properly maintain the environment to overcome the challenges of growing plants under glass. Topics include heating and cooling, shading, humidity, insect control and how to raise seedlings.

Instructor: Keith Funk is garden center manager for Echter's Greenhouses and host of KDEN radio's Sunday morning gardening program. He was formerly a Colorado State extension agent.

Fee: \$6 members/\$7.50 nonmembers

Limit: 25

Tropical Rain Forest Ecology and Destruction

Tuesday, October 22
7 p.m.

John C. Mitchell II Hall

The fate of the rain forests depends on our understanding the consequences of their destruction and the underlying ecological and biological processes

which shape the forest. This slide-illustrated talk shows the rain forest of Central and South America. Learn about the different types of forests found within the rain forest areas as well as how the forests are able to regenerate themselves after disturbances by man.

Lecturer: Robert L. Sanford, Jr., Ph.D., has participated in research projects in Brazil, Costa Rica, Puerto Rico and Hawaii. He is currently Academic Coordinator of the Program for Ecological Studies at Colorado State University.

Fee: \$4 members/\$5 nonmembers

Bird Personalities

(three sessions)
Wednesdays, October 23, 30 & November 6
6:30 to 8:30 p.m.
Visitor Center
Chatfield Arboretum

Become more than just a bird lister! Learn the hows and whys of territorial, migration, feeding, denning and sunbathing behaviors. Find out why some woodpeckers disperse ants all over their bodies. Learn how ocean-dwelling birds compensate for the large amount of salt they ingest daily. What enables Colorado's broad-tailed hummingbird to fly backward? You will marvel at how snipe and woodcocks make their courtship sounds. You'll learn much more in this class.

Instructor: Naturalist Tina Jones has birded throughout the United States and teaches bird identification and behavior classes.

Fee: \$8 members/\$10 nonmembers

Limit: 25

Clinical Options in Horticultural Therapy

Friday, October 25
8 a.m. to 5 p.m.
Morrison Center

This workshop will introduce you to the many facets of horticultural therapy, highlight some exemplary programs in this region and provide guidance for using plants and gardening to enhance human well-being.

Instructor: Rebecca Haller, HTM, is the DBG horticultural therapist. She has a strong interest in helping everyone who has the desire to garden.

Fee: \$34 members/\$40 nonmembers

Tree Walk at Washington Park

Saturday, October 26
9:45 a.m. to noon

Learn to identify many beautiful trees including cottonwoods, golden rain trees, ginkoes, eastern wild cherries, yellowwoods and five oak species.

Leader: Dr. William G. Gambill

Meet: 9:45 a.m. at the Washington Park boat house (on east side near Franklin Street). You may wish to bring a sack lunch to enjoy in the park after your walk.

Fee: \$8 members/\$10 nonmembers

Limit: 20

Autumn Flower Arranging

Monday, October 28
10 a.m. to 2 p.m.
Morrison Center

Create naturalistic floral arrangements full of the warm, inviting colors of fall. You are encouraged to gather and dry grasses and other materials now to include in your arrangements.

You may cut some plants at the Gardens during the class (depending on the weather) and others will be provided. Please bring your own containers and flower snips as well as a container for holding water and flowers. A piece of floral foam or needle-point flower holder and wire cutters or pruning shears will be useful. Bring a lunch.

Instructor: An experienced floral designer and teacher, Julia Dobbins has studied arranging in both the United States and England.

Fee: \$31 members/\$35 nonmembers (includes \$15 for flowers)

Limit: 12

Oriental Wave of Cooking

(two sessions)
Tuesdays, October 29 & November 12
6 to 8 p.m.
Kitchen next to DBG Library

This exciting new cooking class by an internationally known chef emphasizes using fresh produce and specialized cutting techniques for quick sauteing to produce elegant yet low-cost meals. The first session demonstrates the oriental way of quickly preparing chicken and vegetables. The second class shows how to grill or steam marinated fish and vegetables.

Instructor: Thoa Fink is the owner of Ristorante Bocalino and the former Chez Thoa Restaurant. She does all the cooking as well as creating new recipes and menus for Bocalino.

Fee: \$13 members/\$15 nonmembers (includes \$5 for materials)

Limit: 20



Watercolor Painting

(five sessions)

Wednesdays, October 30, November 6, 13, 20 & 27

Section I: 9:30 a.m. to 12:30 p.m.

Section II: 6:30 to 9:30 p.m.

Classroom A

Please indicate your section on the registration form.

Explore the sparkle and delicacy of watercolor painting while you enjoy the beautiful setting of the gardens.

This course will cover the basic materials and techniques of watercolors, emphasizing freedom of personal expression.

Come prepared with supplies: a one-inch flat brush, #10 round brush, watercolor paper; tissues, container for water, plastic palette and cake or tube watercolors.

Instructor: Boris Shoshensky teaches drawing, watercolor and oil painting at Rocky Mountain College of Art and Design.

Fee: \$60 members/\$72 nonmembers

Limit: 12

Harvest Style Flower Arranging

Thursday, November 7

10 a.m. to 2 p.m.

Classroom B

Create an arrangement of fall harvest materials to complement your Thanksgiving setting. Bring materials that you have gathered to personalize your arrangement. Also bring a lunch, flower snips, containers and a small bucket to hold water and flowers. A piece of floral foam or a needlepoint flower holder and wire cutters will also be useful.

Instructor: Julia Dobbins

Fee: \$31 members/\$35 nonmembers (includes \$15 for materials)

Limit: 12

Unique Pestos

Saturday, November 9

10 a.m. to noon

Polly Steele Nature Center

Basil pesto is a favorite among pasta lovers and gourmet cooks. By changing certain ingredients and using different herbs, this traditional favorite becomes new, unusual sauces. Learn how to make these culinary creations for pasta and other dishes. This class will show you how easy it is to cook with a touch of gourmet. Also, pesto sauces are great gifts for the holidays or anytime.

Instructor: Karen Winans Morgan is an intern in DBG's horticultural therapy program and accomplished at both herb gardening and cooking with herbs.

Fee: \$16 members/\$18 nonmembers (includes \$8 for materials)

Limit: 12

The Case of the African Violet

Sunday, November 10

1 to 3:30 p.m.

Classroom B

Learn basic African violet care: lighting, feeding, watering, temperature control, cleaning, soils, pests and propagation. You may also bring a couple of your African violets to this hands-on workshop to learn why they won't grow—or why they have grown too tall.

Bring a clean, sharp knife and, if you wish, a pest-free plant or two from your own collection. The instructor will provide cuttings.

Instructor: Debbie Griffith has been growing African violets for 13 years. She is president of the Rocky Mountain African Violet Council and a senior show judge.

Fee: \$14 members/\$16 nonmembers (includes \$4 for materials)

Limit: 20

Tropical House Plants

Wednesdays, November 13 & 20

9 to 11:30 a.m.

Classroom B

Many of the plants we have in our homes came from tropical rainforests. This class will introduce you to the habitats and cultural requirements of begonias, gesneriads, ferns, aroids (including anthuriums) and the forest succulents. In a hands-on session you will have the opportunity to learn how to propagate some of these plants and have a small plant to take home.

Instructor: Gary Davis

Fee: \$20 members/\$24 nonmembers (includes \$10 for materials)

Limit: 15

Attracting & Feeding Backyard Birds

(two sessions)

Thursdays, November 14 & 21

6:30 to 9 p.m.

Morrison Center

It's never too late to start feeding birds in your yard, but learn to avoid less desirable species, such as starlings and grackles and to encourage chickadees, nuthatches, gold finches, siskins and others.

The preferred foods of specific species, proper location of feeders and houses, and where to buy good, cheap food will be covered. One session involves plantings, especially xeriscaping, you can add to your landscape to attract even more four-toed friends.

Instructor: Tina Jones

Fee: \$10 members/\$12 nonmembers

Limit: 20

Autumn Lesson in Ikebana

**Section I: Saturday, November 16
9:30 to 11:30 a.m.**

**Section II: Wednesday, November 20
9:30 to 11:30 a.m.**

Morrison Center

Please indicate your section on the registration form.

This workshop is an introduction to Ikebana but can also serve as a refresher course for students who have completed the Beginning Ikebana class. Two arrangements will be completed in the workshop.

Please bring the following materials to class: two round or rectangular ceramic containers (no smaller than 12 inches long and two inches deep), two needlepoint flower holders (one that is two inches wide or larger), sharp clipper, small bucket or other container and notebook. Although flowers will be provided, students should bring their own line material (branches).

Instructor: Fran Wittgartner is past president of Ikebana International and has been presenting gardening programs for 16 years.

Fee: \$13 members/\$15 nonmembers (includes \$5 for materials)

Limit: 12

The Winter Herb Garden

Wednesday, November 20

7 to 9 p.m.

Morrison Center

The season for growing fresh herbs is nearly over—or is it? Just because summer is gone doesn't mean you have to stop cooking with fresh basil, chives, thyme and other herbs. Learn how to grow these herbs all through the winter to gain a headstart on next summer. A winter herb garden makes a very special gift.

Instructor: Karen Winans Morgan

Fee: \$15 members/\$18 nonmembers (includes \$8 for materials)

Limit: 20

Registration

Class fees must be paid in advance by credit card, check or money order made out to Denver Botanic Gardens. Phone registration will be accepted for credit card payment only. Space in many classes is limited. You will be enrolled in class the day your payment is received. All classes are subject to a minimum of ten students. For further information, please call 370-8020.

Cooking with Judith Fine-Sarchielli

(Please bring a small chef's knife, paring knife, apron and a cutting board if you wish to participate in the hands-on part of these classes.)

Instructor: An accomplished chef, caterer, food consultant, teacher and designer, Judith Fine-Sarchielli lived in Italy for 15 years.

Fee for each class (unless otherwise noted): \$16.50 members/ \$20 non-members (includes \$4.50 for materials)

Limit for each class: 12

Tropical Taste Treats

Sunday, October 6
1 to 3:30 p.m.
Morrison Center

Tropical rainforests provide many exotic plants enjoyed in today's cuisine. Learn more about the origins and uses of these tropical plants, and how to make Indonesian curry to serve with a tropical fruit dessert from Africa.

Gift Herbs & Spices

Saturday, October 19
9:30 a.m. to noon
Morrison Center

Holiday gift-giving with a flair. Create your own herb and spice-scented oils, vinegars, and cordials. These are unique year-round gifts.

Amazon Delights

Wednesday, October 23
6:30 to 9 p.m.
Kitchen next to DBG Library

Learn to make these tropical treats from South America: *Carapulcar*, a chicken casserole from Peru, and *Mousse de Castanhas de Caju e Chocaloate*, a chocolate cashew mousse from Brazil.

A Classic Tuscan Christmas Feast

Sunday, November 17
12:30 to 4:30 p.m.
Kitchen next to DBG Library

Surprise friends and family with a traditional Tuscan Christmas dinner. We will prepare an entire meal and then eat it ourselves, so come prepared with apron, cutting board and chef's knife for this very special feast.

Recipes will be provided for *crostata de fegatini* (chicken liver toasts), *tortellini al brodo*, roast hen with rosemary, lentils Tuscan style, rosemary oranges, poached pears in a red wine and *zabaibljone* sauce, and *panetone* and *panforte*, traditional Tuscan Christmas cakes.

Fee for this class: \$43 members/\$52 nonmembers (includes \$25 for materials)

For Kids: Under the Canopy—Rain Forest in a Bottle

Saturday, October 26
9 a.m to noon
For ages 8 to 11
Classroom B

Explore the world of the tropical rain forest – home of brilliant butterflies and vampire bats. Discover plants that clamber and climb and orchids so beautiful they are called jungle jewels.

Learn about animals who call tank plants their home and see how the jungle canopy is like a grocery store. Sample savory treats such as mango, papaya, chocolate and vanilla and make a rainforest in a bottle to take home.

Instructor: Carol Knepp has worked in the education department at DBG for eight years. She is currently studying elementary education and has taught at Gove Community School.

Fee: \$18 members/\$20.50 nonmembers (includes \$6 for materials)

Limit: 12

For Kids: Pflanzenstein

Saturday, November 2
Section I: 9 to 11 a.m.
For ages 6 to 8
Section II: 12:30 to 2:30 p.m.
For ages 8 to 10
Classroom A

Make whole, living plants from parts, it's easy if you know what to do. This class goes beyond the avocado tree and is perfect for budding gardeners. Sprout seeds on sponges, grow new plants from old ones and learn about pups. Take home all the new plants you can carry.

Instructor: Carol Knepp

Fee: \$13 members/\$15 nonmembers (includes a \$5 for materials)

Limit: 12

For Kids: Jungle Snoopers

Monday through Thursday,
November 11 to 14
9:30 a.m. to 11 a.m.
For ages 3 & 4
Classroom A

Students need to have had some pre-school experience and be toilet trained.

Explore the DBG conservatory and hear stories of forest and animal adventures. Taste tropical fruits and study jungle bugs. The stories will inspire drawing and painting.

Instructor: Linda Fogel has taught children's classes at the Gardens for three years. She brings a lively, creative approach to learning.

Fee: \$29 members/\$34 nonmembers (includes \$5 for materials)

Limit: 8

For Kids: Conservatory Stories

Saturday, November 9
Section I: 9 to 11:30 a.m.
For ages 6 to 8
Section II: 1 to 3:30 p.m.
For ages 9 to 11
Classroom A

Kids can explore the Garden's conservatory jungle while learning about rainforest ecology. There will also be an opportunity to plant a miniature rainforest to take home.

Instructors: Section I: Carol Knepp
Section II: Pattyanne Corsentino is a science teacher at Martin Luther King Jr. Middle School. She has received the Colorado Wildlife Federation 1990 Outdoor Educator of the Year award and the 1991 Colorado Conservation Teacher of the Year award.

Fee: \$16 members/\$18 nonmembers (includes \$6 for materials)

Limit: 12



Registration Form for Classes, Field Trips and Lectures

Enclosed is \$ _____ for the following classes.

Name and section of classes:

Name _____

Member of Denver Botanic Gardens ☐ Yes ☐ No

Member ID _____
(on top line of newsletter address label)

Address _____

City _____ Zip code _____

Daytime Phone _____ Evening Phone _____

☐ Cash ☐ Check ☐ VISA ☐ MC

_____ Exp. _____

Signature _____

Class locations:

Classrooms A, B and C are at 1005 York Street, Denver.

The DBG Morrison Horticultural Demonstration Center is at 2320 East 11th Avenue, Denver.

Chatfield Arboretum is at 9201 South Carr Street, Littleton (south on Wadsworth Boulevard 0.3 mile past C-470, west onto Deer Creek Canyon Road).

OCTOBER

Coming Up

Classes are in *italics*. Asterisk* indicates the first meeting of a class with more than one session.

October

- 3 ** Beginning Bonsai*
- 3 *The Fall Garden*
- 5 *Forcing Bulbs*
- 6 *Ornamental Grasses*
- 6 *Rocky Mountain Arsenal Field Trip*
- 6 *Winterize Your Rose Garden*
- 6 *Tropical Taste Treats*
- 7 **A Bounty of Bulbs*
- 12 *The Pumpkin Patch, Chatfield Arboretum*
- 13 *Family Tree Walk at Fairmount Cemetery*
- 19 ** Houseplant Horizons: Orchids & Bromeliads*
- 19 *Gift Herbs & Spices*
- 19 *Pioneer Graves at Fairmount Cemetery*
- 19 *Free Day*
- 19 *African Violet Sale*
- 21 ** How to Use Your Greenhouse*
- 22 *Tropical Rain Forest Ecology & Destruction*
- 23 ** Bird Personalities*
- 23 *Amazon Delights*
- 25 *Clinical Options in Horticultural Therapy*
- 26 *Tree Walk at Washington Park*
- 26 *For Kids: Under the Canopy—Rain Forest in a Bottle*
- 26 & 27 *Pumpkin Art Contest & Display*
- 28 *Autumn Flower Arranging*
- 29 ** Oriental Wave of Cooking*
- 30 ** Watercolor Painting*



Late Season Sun, one of five color note-card images by Gayle Crites commemorating the Gardens' 40th anniversary, is available in the Gift Shop.

The Pumpkin Patch— Chatfield Arboretum, October 12 Pumpkin Art Contest & Display— Denver Botanic Gardens, October 26 & 27

Denver Botanic Gardens, Inc.

909 York Street
Denver, Colorado 80206
303-331-4000 • 370-8032 TDD

Address correction requested

TIME VALUE

October 1991



Non Profit Org.
U.S. Postage
PAID
Permit No. 205
Denver, CO

Richard Lacey

RECEIVED

SEP 16 1991

EXEC. DIRECTOR'S OFFICE

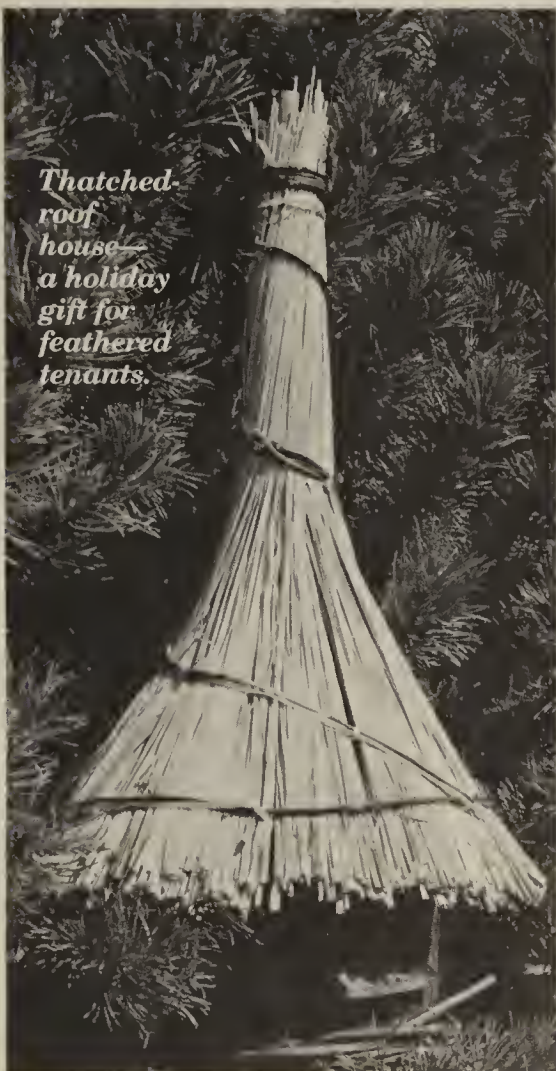
Plant
Societies
at DBG

Many plant and horticultural societies meet regularly at DBG. For their meeting times or to contact a representative of any group in which you are interested, call Denver Botanic Gardens during business hours: 331-4000, 370-8032 TDD.





*Thatched
roof
house—
a holiday
gift for
feathered
tenants.*



NEWS

**Denver Botanic Gardens
November 1991
Number 91-11**

Gift Shop Pre-Holidays Sale, November 22 & 23 Offers Members Shopping Ease, Selection and Savings

Where can you shop this season, and not only buy a decorative spiced simmer spoon as a holiday housegift, but get lovely pastel dried flowers for your Thanksgiving centerpiece?

Or pick up a Tasha Tudor story for your granddaughter while you pick out a beautiful handmade angel for your Christmas tree?

Or purchase a welcoming, all-natural wreath for your winter door and, in the same store, a fine English china luncheon set decorated with delicate wildflowers?

And where can you shop this season where you will receive a 10 percent discount if your purchases total more than \$10?

As a member of Denver Botanic Gardens, there's only one place, and one time. It's the Gift Shop pre-holidays sale, which this year is Friday and Saturday, November 22 and 23. Hours are 9:30 a.m. to 4:30 p.m. each day.

The annual sale arrives just in time for you to assemble dried natural floral materials for your holiday arrangements and to choose from the thousands of books and other items that have been brought in especially for this event for holiday giving.

Longtime supporters of the sale will be pleased with the many new items this year. A first-time shopper at this event may find the selection of natural and manufactured items truly staggering.

Several groups have come together to bring a selection of this size to you.

The Gift Shop volunteers have been preparing for this sale all through the year, searching out new lines of decorative home accessories, the latest gardening and nature books and clever Christmas ornaments, and they've been crafting sachets, wreaths and handmade ornaments.

If your home is Mediterranean or Southwestern in style, consider custom-designed ceramic address tiles—with welcome signs, switch plates and coasters to match. You can either buy the beautiful tiles in stock or consult with the Gift Shop clerks to order your own floral theme custom-designed and fired.

Books? For this sale the Gift Shop has stocked up on the latest titles to help you garden and to reveal the

secrets of nature. Highly recommended is *The Xeriscape Flower Gardener* by Boulder landscape architect Jim Knopf. One of the most beautiful books

Continued on page 6



*Gift Shop
potpourri
volunteers Joan
of Arc Arguello,
Avalonne
Kosanke and
Ruth Van Etten
work on new
items for
the sale.*

Inside:

*Alexander
Honored
page 2*

*Aspen Lecture
page 3*

*Vernalization?
page 4*

*Gift Sale Gallery
pages 5-6*

*London
pages 7-8*

*Classes
pages 9-11*

*Coming Up
page 12*

Fete des Fleurs A Beautiful Success

It was a gala evening of dining and dancing under the stars surrounded by September flowers and good friends of the Gardens. By all standards it was beautiful—and a great success.

The 1991 *Fete des Fleurs*, a black-tie fund-raiser, attracted 240 party-goers. Chaired by Mrs. Kenneth C. (Joan) Egan and Mrs. James R. (Carol) Schmidt, it garnered over \$80,000 in support of the Gardens.

In addition to the *Fete* Committee, who worked tirelessly on the project for over a year, the Gardens thanks the following major donors.

Mr. and Mrs. Kenneth C. Egan; Fairfield and Woods, P.C.; First Interstate Bank of Denver; Mrs. Charles C. Gates; The Gates Corporation; Mrs. Jess Gibson; Holme Roberts and Owen; Mr. and Mrs. J. Landis Martin; Martin Marietta Astronautics Group; Mr. and Mrs. Frederick R. Mayer; Mr. and Mrs. John C. Mitchell II; Mr. and Mrs. James R. Schmidt; Mr. and Mrs. B. K. Sweeney, Jr.; Mr. and Mrs. Thomas E. Taplin; United Bank of Denver; Mr. and Mrs. Randal H. Woods; and an anonymous donor.

Employee of the Month

Horticultural therapist Rebecca Haller is October's employee of the month. Rebecca has been recognized for her demonstrated competence in implementing the SCFD funds grant for handicapped accessibility. She has worked on everything from ramps and brochures to sign language classes, helping to make the Gardens more entertaining and educational for many new visitors.

Tributes

In memory of Gertrude Ardel
Robert F. & Patricia Young Connor

In memory of Mrs. Helen T. Breitenstein
Mr. & Mrs. Barkley Clanahan

In memory of Mrs. Samuel (Marjorie) Childs
Helen Grant

In memory of Mrs. Lynn Dorn
Mr. & Mrs. Walter C. Emery

In memory of John Hodgson
Mr. & Mrs. J. C. Rheem
Mr. & Mrs. Walter A. Steele

In memory of Ms. Mary Riley
Mrs. Richard Girouard
Betty R. Burnett

In memory of Mr. Carlton Rittner
Dr. & Mrs. John W. Chisholm

In memory of Esther Small
Martha C. Oblander



Quilt Sale Thank You

Eighteen months ago a group of committed volunteers got together to reshape the quilt sale of years past. The first thing they did was give it a new name, *Petals & Threads*. From that point on it developed into the most comprehensive quilt event in Colorado open to the public. The September event included both sale and show quilts, crafts, a quilt challenge, wearable art, a game of skill and a workshop and lecture. Sale and challenge quilts came in from all across the country. The Gardens was filled with excitement and many new visitors.

Many thanks to Jane Dumler, *Petals & Threads* chairman, for her ideas and direction and to all the committee chairmen for the many hours of creativity and hard work that went into making this event such a success.

The Gardens also thanks its partners in this event: Major assistance came from the Great American Quilt Factory. Others partners were: Sir Speedy, Denver Botanic Gardens 1992 Plant & Used Book Sale, Hancock Fabrics, Leman Publications, Ruby Forbes, King Soopers, Columbine Quilt Guild, Berkley United Church of Christ, Howard Lorton Galleries, Safeway Stores and Jill Skorpen.

Penstemon Variety Named for Alexander

The Denver Botanic Gardens Board of Trustees at its September meeting unanimously passed a citation naming a variety of *Penstemon caespitosus* after Interim Executive Director Bruce Alexander.

A prized white variety of the plant brought into cultivation in the 1930s or '40s, now growing in DBG's Rock Alpine Garden, will be known as *Penstemon caespitosus* 'Bruce Alexander.' Common colors are blue or lavender.

The species is a low, mat-forming plant from western Colorado, eastern Utah and southern Wyoming. The white form was discovered in Summit County, Colorado, by Kathleen Marriage, one of the region's most noted and enthusiastic early alpine horticulturists.

Although it has been in cultivation for over 50 years, it has never had an official varietal name. The incoming president of the American Penstemon Society, Gwen Kelaidis, was present at the board of trustees' ceremony to accept the registration of its new name.

The resolution was entered by Mrs. Thomas (Bea) Taplin, trustee and former president.

Green Thumb News • Number 91-11 November 1991

Published monthly by Denver Botanic Gardens 909 York St., Denver, CO 80206.

Edited by Larry Latta, 370-8033 • Deadline for December issue: October 20

Subscription to this newsletter is a benefit of membership in Denver Botanic Gardens. For information please write the membership department at the above address or call 370-8029, or 370-8032 TDD.

Denver Botanic Gardens and Chatfield Arboretum are established and maintained by Denver Botanic Gardens, Inc., for the people of the City and County of Denver and for the general public in cooperation with the Denver Parks and Recreation Department. Denver Botanic Gardens is also grateful for funds from the Scientific and Cultural Facilities District (SCFD), which enable the Gardens to expand services and enhance the quality of programs and exhibits.



Accredited by the
American Association
of Museums

Three Free Days For Nonmembers In November

Visitors to Denver Botanic Gardens will be able to take advantage of three days with no gate admission this month.

Friday, November 15, is a Colorado free day. Arranged in cooperation with the Denver City Council and the Scientific & Cultural Facilities District, the day is for all Colorado residents to stroll the outdoor gardens and the tropical conservatory for free.

Then, during the Gift Shop's pre-holidays sale, Friday and Saturday, November 22 and 23, the front gate is again thrown open to encourage shoppers to take advantage of the unusual selection of items offered by the Gift Shop, the Denver Botanic Gardens Guild and the Chatfield Arboretum Volunteers.

What's to see at the Gardens in November? The plains garden is beautiful, snow or shine, as is the Japanese garden. And Boettcher Memorial Conservatory will be warm and humid, lush with interesting tropical blossoms throughout the winter.

Here's a suggestion: When you come in to shop at the Gift Shop, bring a friend who is not yet a member. Show someone else that Denver Botanic Gardens is truly a "garden for all seasons."

DBG, DAM Sponsor Mural Art for Kids & Parents

Children and their parents will "paint the rainforest" at the Gardens Saturday, November 9.

The Gardens and the Denver Art Museum will sponsor a mural painting activity inspired by the tropical plants growing in DBG's Boettcher Memorial Conservatory. Teacher-artists from the museum will guide the kids as they paint their perceptions of the rain forest. The conservatory is planted to portray the exotic beauty of a tropical forest setting.

There will be five sessions beginning at 11 a.m. and on the hour through the day, with the last session starting at 3 p.m. No registration is required and all interested families are urged to join in. Meet in the conservatory.

This joint project is held in association with the Smithsonian Institution exhibit "The Tropical Rainforest: A Disappearing Treasure" now at the Denver Museum of Natural History. "Painting the Rainforest" is funded by the John D. and Catherine T. MacArthur Foundation to promote cooperative educational ventures among the city's major cultural institutions.

'Aspen' Lecture by Author, Photographer Team

3

The Carl W. Tempel lecture at 7 p.m., Wednesday, November 6, will be a team presentation by two of the region's most interesting naturalist artists, writer Ann Zwinger and photographer Barbara Sparks. The lecture and slide show is based on their book *Aspen—Blazon of the High Country*.

Ann Zwinger is the author of a dozen books, among them her latest, *The Mysterious Land*, and the Burroughs Medal winner, *Run, River, Run*. Her first book was *Beyond the Aspen Grove*. She is an illustrator, teacher and outdoor consultant.

Barbara Sparks, well known for her black and white photography in the Southwest and the Rocky Mountain West, switches to color for this book and for the DBG lecture. Her photography has appeared in the Museum of New Mexico, National Geographic Center, and Epcot. Both Zwinger and Sparks reside in Colorado Springs.

Through winter, spring, summer and fall, Zwinger and Sparks take us on a journey of discovery through the West in search of the quaking aspen. They acquaint us with the striking beauty of both individual trees and clones that spread across acres of mountainsides.



In a style that is often personal and always engaging, Zwinger takes a close-up look at aspens with a keen eye and scientific curiosity. She examines how aspen reproduce and survive and tells us of boring beetles and caterpillars that mine aspen leaves. She tells of fire's role in rejuvenating the life of a grove, of aspens that grow shrub-like and twisted and those that grow straight and tall, in praise of aspen that is precise and poetic.

Barbara Sparks' magnificent photographs are a testament to the surprising variety found among aspen, season to season. From tiny groves of golden yellow trees shining through a mass of green fir, to large stands of white-barked

trunks smothering winter hillsides, the glorious images of the aspen found in this lecture have the power to inspire any nature lover.

The lecture series was inaugurated in 1979 to honor Major General Carl W. Tempel.

This DBG lecture is in John C. Mitchell II Hall, 1005 York Street, and is free and open to the public.

Ann Zwinger and Barbara Sparks

'Blossoms of Light' to Dazzle Holiday Visitors

"Holiday Magic" is the theme for Denver Botanic Gardens' 1991 Blossoms of Light, a celebration of the winter holidays.

This year's lighting display will begin December 7 and continue through January 19, the closing of the National Western Stock Show. The Gardens will be open from 9 a.m. to 8 p.m. daily. Christmas Eve and New Year's Eve the Gardens close at 4 p.m. and are closed all day Christmas and New Year's Day.

Thousands of colorful, twinkling lights will guide you into the magic of the season. The outdoor display will feature new designs along with highlights from last year. John C. Mitchell II Hall will come alive with six trees decorated by schoolchildren from the four-county metropolitan area. The Garden Club of Denver will again decorate a 14-foot tree to grace the lobby. Exterior and Lobby Court displays have been designed by Evergreen Specialty Company with the cooperation of DBG staff members.

Teddy Bear Teas, modified high teas for children, will be held on Saturday, December 7 and 14, with seatings at 1 and 3 p.m. Earl Ruen will dazzle

the children with his magic on December 7, while the Talking Teddy will entertain them with teddy bear stories on December 14. Children are invited to bring their favorite teddy bear or doll. Reservations at \$8 per child and \$15 per adult. For your convenience the enclosed flyer includes a reservation form.

Evenings of music for the entire family are scheduled for Tuesdays, December 10 and 17 and Thursdays, December 12 and 19, from 7 to 9 p.m.

Teddy bears receive special treatment at holiday teas.



Botanical Treasures November 1–3

Turner Gallery and Pismo, a “natural gallery,” present Botanical Treasures VI November 1 to 3. Whether you are a collector or a casual admirer of botanical art or fine glass works this show and sale has something for you.

The sponsors know that any time you purchase a work of art, be it an antique illustration or handcrafted glass, you may have many questions. For example, what effect does the paper used for botanical illustration have on the value and nature of the work? What are the differences between hand-blown, slumped and fused glass? What are the benefits of each? During Botanical Treasures Turner Art Gallery and Pismo will have knowledgeable people available to answer your questions.

To learn about botanical illustrations prior to the show you may want to visit the Helen Fowler Library of Denver Botanic Gardens. The library has the finest and most extensive collection of original botanical print books in the Rocky Mountain region.

Whether you are a collector or a newcomer to the world of botanical illustrations and fine art glass there is much to learn and enjoy at Botanical Treasures VI. It is a perfect time to add to an existing collection or start a new one for yourself or someone else.

“Cactus speciosissimus,”
by William
Barter,
from *British
Phaenogamous
Botany*, 1834



Gardening: Vernalization or Stratification?

The following discussion was submitted in response to an article in a previous Green Thumb News. It is presented here because of the confusion over these terms—and because of the subject's seasonal interest. —Ed.

by James Borland

While many gardeners exchange their gardening tools for snow shovels with the arrival of the first frost, others more attuned to nature and her ways take full advantage of the ensuing cold temperatures to prepare for plant processes which occur only during the winter season.

One of these processes, “vernalization,” is a term coined by Trofim Lysenko, a Russian who believed that winter wheat could be turned into spring wheat merely by subjecting the seeds of the former to a period of cold temperatures. As coined, the term originally meant a “springization” of one wheat type into another. While Lysenko mistakenly ignored genetics and its absolute control over such transformations, the term vernalization sticks with us now as a general one meaning a low-temperature promotion of flowering.

Unfortunately, the term also has been mistakenly used to refer to any plant response to cold, as well as any promotion of flowering by any treatment, even day length.

Classically, or at least since the time of the unfortunate Lysenko, vernalization, as used by plant physiologists, refers to the promotion of flowering in winter annuals and biennials as a result of their subjection to cold temperatures. Examples of this include winter wheat that is planted and germinated to spend the winter as small seedlings. These then form flowers at normal temperatures the subsequent spring.

On the other hand, several varieties of beets, cabbage, kale, brussels sprouts, carrots, celery and foxglove spend their entire first warm growing season and the following winter as a rosette that, the following spring, forms a rapidly elongating flower stem in a process called bolting. In the absence of the near-freezing temperatures of winter, these biennials will not flower.

Oddly, there are even a few varieties of seeds, notably a few cereals, which can be subjected to cold temperatures while moist and that utilize this time instead of a full winter period as a seedling to promote flowering quickly after germination and growth at normal warm temperatures. These seeds, however, do not need these low temperatures in order to germinate.

Seeds which do need a period of low temperature while moist in order to germinate are considered to be “cold dormant” and are traditionally subjected to a process called “stratification” to force their germination.

As originally used, the term referred to a process whereby seeds known to require this treatment were placed between layers of a mixture of moist peat moss and sand. The resultant layered (stratified) mixture was then placed in a refrigerated area where temperatures were kept between 34 and 41 degrees Fahrenheit for a period known to break the cold dormancy for that particular lot of seeds (usually between one week and three months). After this period the seed was planted in the traditional manner and germination ensued under normal warm temperatures.

As traditionally used, the term stratification had nothing to do with the promotion of flowering since many species subjected to this treatment would not normally flower for many years. The key conditions to remember with the use of this term are “cool temperatures” (not freezing) and “moisture.” Without either one cold-dormant seed will not germinate.

Unfortunately, as with the term vernalization, the term stratification too has been misused. One too often encounters the redundant terms “moist stratification” and “cold stratification” as well as the meaningless terms “dry stratification” and “warm stratification.”

Regarding the proper terms to describe the breaking of winter dormancy in the buds of woody plants; the low temperature induction of underground storage organs such as tubers, corms and bulbs; and the effect of low temperatures on the vegetative form and growth of certain plants—all this leaves us in the dark. Certainly stratification, which refers only to seeds, does not fit; and, since many examples of these groups have flowers already formed before low temperatures arrive, the strict use of the term vernalization does not fit either.

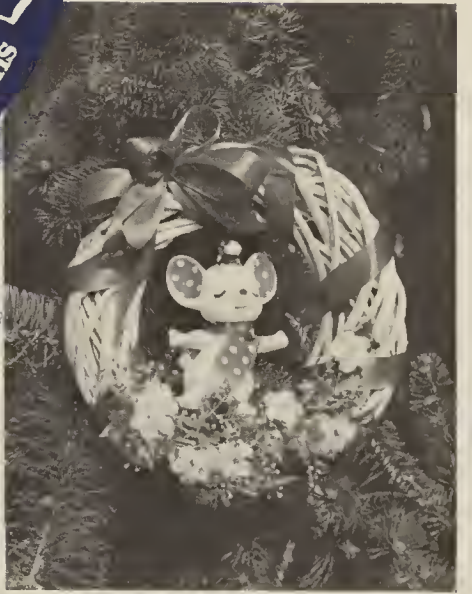
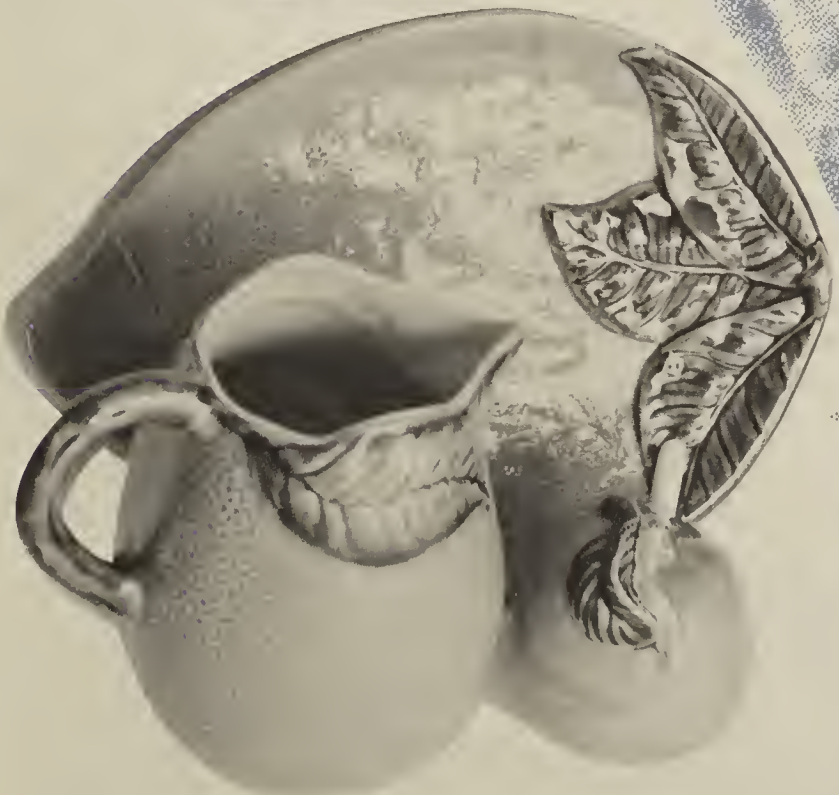
Perhaps with further research into the chemical and physiological processes involved, science will give us terms not only precise in their meaning but descriptive in their makeup. Until then, caution should prevail when one gardener speaks to another of vernalization and stratification.

James Borland, a landscape horticulturist, is a specialist in native western plants and former plant propagator at Denver Botanic Gardens.

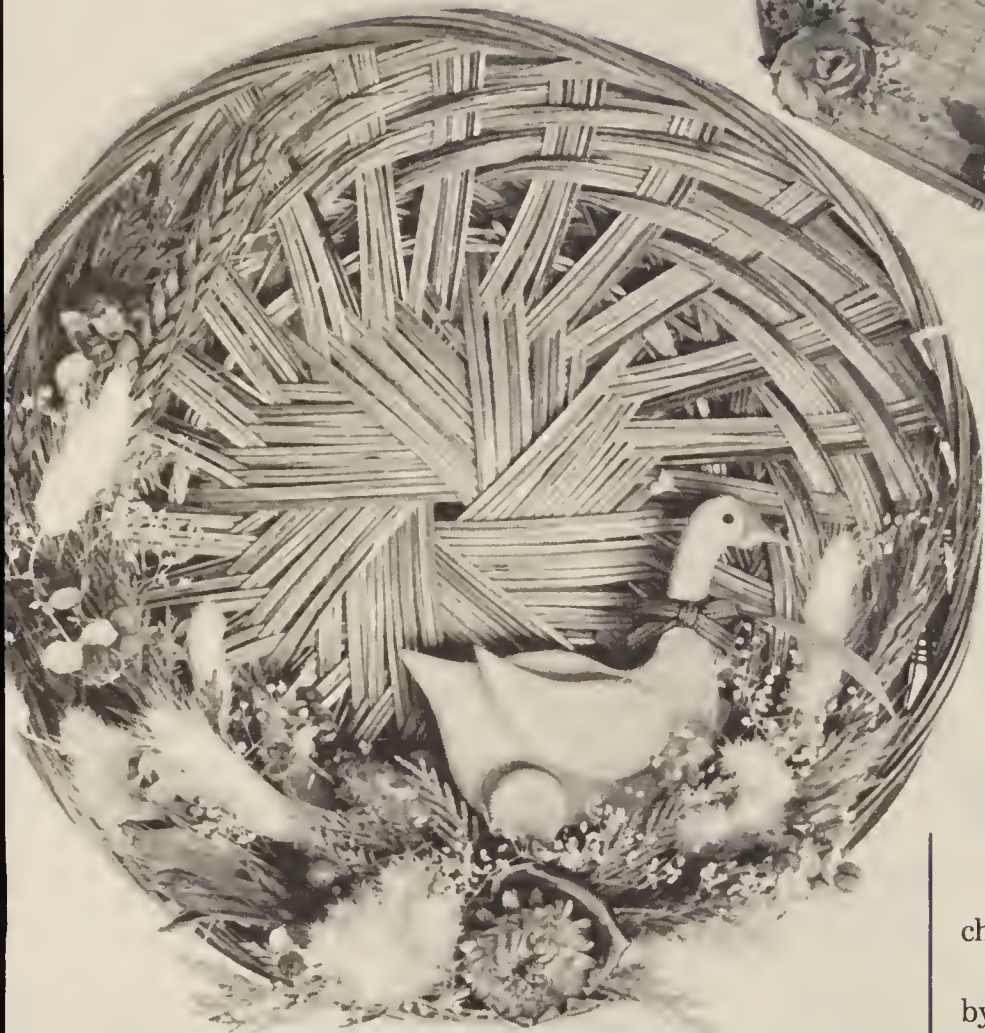
1991 Pre-Holidays Gift Sale



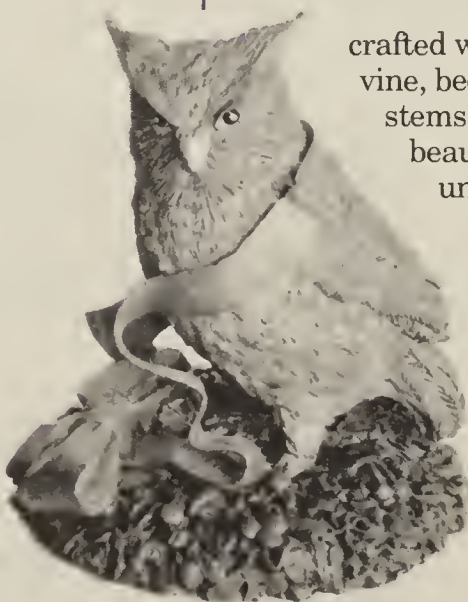
Books for children and adults, ornaments for home and tree, hostess gifts, baskets and dried flowers in every imaginable hue and shape.



Gifts for Everyone at Pre-Holidays Sale



... Angels of lace, angels of sissal, potpourri-filled bamboo boxes, miniature baskets for miniature vegetables, woven baskets and animals dressed for the holidays



Continued from page 1

of the year is *Aspen—Blazon of the High Country* by Ann Zwinger and Barbara Sparks. For a stocking stuffer consider *Early Bird: Western Backyard Birds*, which combines charming drawings with "handwritten" notes.

Some of the most whimsical holiday decorations in town are new items in a Gift Shop line from last year, Christmas animals decked out with colorful holly, ribbons and bells. It's an extensive menagerie: owls, foxes, beavers, raccoons—even hippos.

The natural, hand-crafted wreaths are of grape vine, beech twigs or rush stems. You can buy them beautifully decorated or unadorned, to create your personal message of welcome. The hand-sewn sachets, besides being wonderfully fragrant, are made of a wide variety of fabrics and colors. Are you looking for something special for a child? How



about a tooth fairy pillow, a small sachet outfitted with a tiny tooth pocket.

The Gift Shop is joined at the sale by the Denver Botanic Gardens Guild, whose members tend the Herb Garden. They have been especially busy during the late summer and fall gathering herbs for their famous flavored vinegars. This year they've also scouted the Gardens and Chatfield Arboretum to cut, dry and prepare thousands of everlasting flowers and plants with unusually colored foliage and interesting seed pods.

In addition to their justly popular traditional vinegar flavors, they've come up with some new tastes this year: garlic-dill, mint and lemon thyme. A new herb mix is sesame herb butter blend, a delicious accompaniment for French bread or pasta. In past years these vinegars and herb mixes, especially the popcorn seasoning mix with dill and parmesan and the peppercorn dill cream cheese blend, have been extremely popular as out-of-the-ordinary stocking stuffers and as gifts for teachers and hostesses. Doesn't that give you some ideas? These mixes contain no MSG, salt, sugar, artificial flavorings, sulfites, BHA, BHT or irradiated herbs. They're about as natural as they could be.

It's impossible to list all the "everlastings" that have been gathered from all areas of the Gardens through the year. Many traditional flowers are available at this sale in unusual new



colors: salmon-pink statice, coral-red yarrow, brilliant orange celosia and gomphrena from coral to pale lavender. For dried fall floral arrangements choose from globes of allium, blue or white delphiniums, bronze grasses, silver spires of artemesia or baby's breath. Singly or by the bunch, these are the ingredients for your loveliest, most colorful centerpieces and holiday decorations ever.

An especially sweet gift is a jar of honey put up by the Chatfield volunteers. Dubbed "the best darned honey by a dam-site," the honey is gathered from hives around the Chatfield reservoir area and is extracted from the honeycombs the old-fashioned way: Instead of heating the combs to a high temperature to melt the wax, which alters the flavor of the honey, it is mechanically spun and the honey is extracted by centrifugal force. The DBG honey has no additives. It is attractively packaged and ready to pop into a Christmas stocking.

The sale is a benefit for the Gardens and an easy, rewarding way for members to lend their support. So come to the Gardens first to do your pre-holidays shopping. It's easy, the selection is great, and you'll save.

May Splendor in Southern England

The
thatched
bridge at
Polesden
Lacey
Garden

May 10 - 25, 1992

You are invited to join fellow Denver Botanic Gardens members in a far-ranging visit to "the country of gardens" during its most beautiful season—spring.

This exciting tour will let you experience three distinct regions.

You'll motor to the Cotswolds to visit Bath, the famous cathedral city of Salisbury and some of the most magnificent manors and private gardens on the island.

West Sussex follows, with Kew Gardens at Wakehurst Place, charming pubs and the marvels of the superb Royal Horticultural Society's gardens at Wisley.

Then, London—shopping, dining, theater and the famous Chelsea Flower Show.

And all of this in the merry month of May, the most magnificent time of year.

Tour Highlights—

Visit with Rosemary Verey, author of *Every Woman's Garden*, and a tour of her home Barnsley Manor.

See the fascinating Cotswolds, including Chipping Campden, St. James Church, Morton-in-the-Marsh and Stow-in-the-Wold.

Tour the "Garden City" of Bath and visit Iford manor, one of England's highest-ranked gardens.

Spend a day at Hidcote Manor, one of the National Trust's finest properties and the gardens of nearby Kiftsgate Court.

Visit the 13th-century cathedral city of Salisbury on the road to Stourhead.

Enjoy morning coffee at Leonard-slee Gardens, then on to the National Trust's Sheffield Park and marvelous Wakehurst Place.

Tour the Cinque Port of Rye and visit greater Dixter, home of author Christopher Lloyd.

Visit the Edwardian Polesden Lacey, with its art collections, and the Palladian Country House, Clandon Park.

Travel to the Royal Horticultural Society's gardens in Wisley where the

rhododendrons and the rock garden will be in their finest glory.

Attend the magnificent Chelsea Flower Show and tour the nearby Chelsea Physic Gardens.

Relax aboard a riverboat excursion to the famous Royal Botanic Gardens at Kew, upstream on the Thames.

Stroll through the Savill Gardens and one of Henry VIII's favorite residences, Hampton Court Palace.

Feast on a gala farewell dinner at Les Bouchons 57 Restaurant in London.

Tour Cost & Inclusions—

Cost of Tour:

\$ 3,020 based on double occupancy;
\$ 899 group air fare on United Airlines (subject to change). (A voluntary \$200 contribution to DBG is included.)

Land price includes:

5 nights at the Stratton House Hotel in Cirencester, Gloucestershire
4 nights at the Winston Manor Hotel in Crowborough, East Sussex
5 nights at the Flemings Hotel in London, Mayfair District
9 full English breakfasts
9 dinners

5 continental breakfasts

5 lunches

Gala farewell dinner

Also included are travel by a small luxury coach, entrance fees to gardens and manors, tours of private gardens, portorage, hotel tax and service charges.

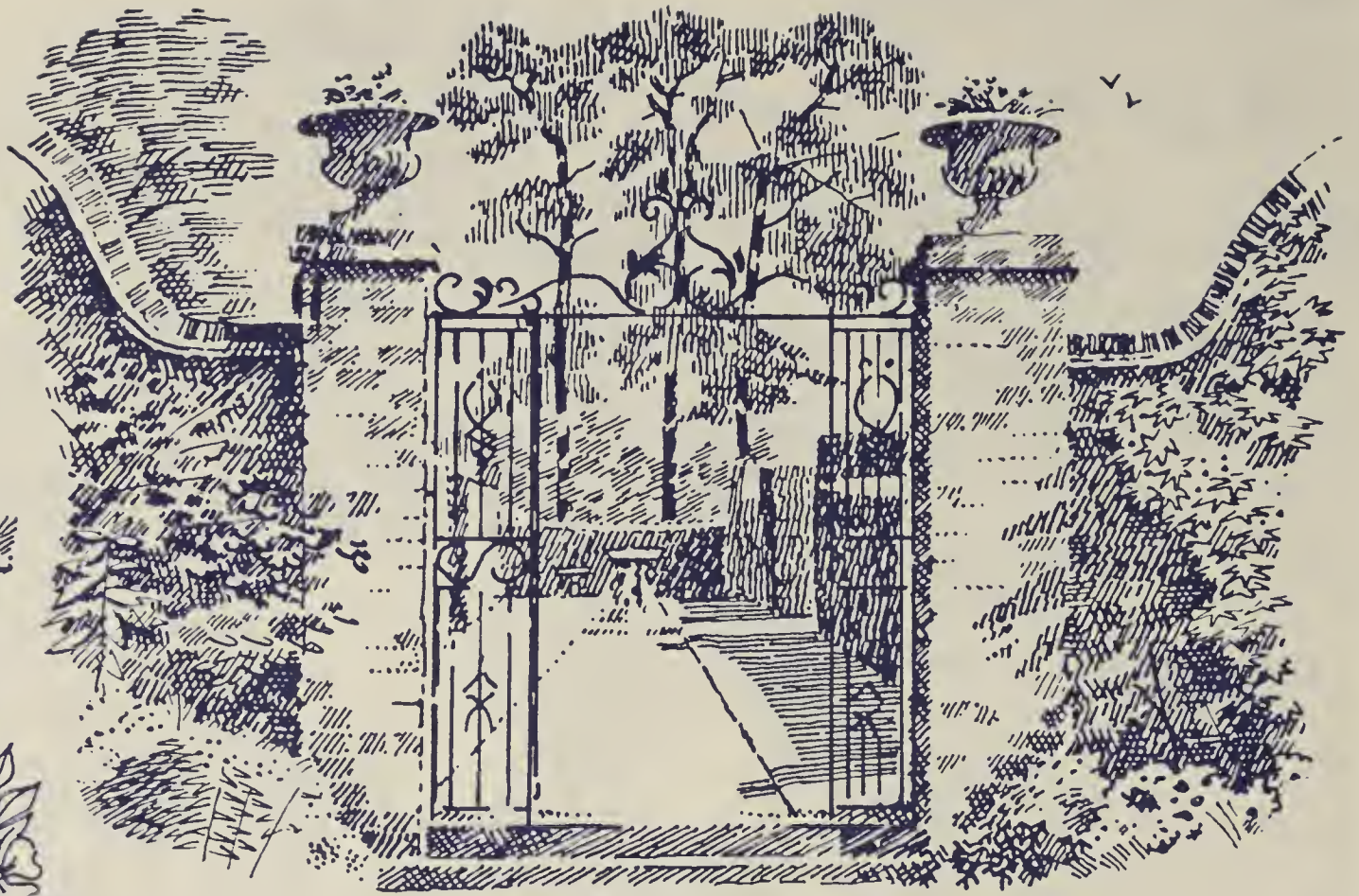
The tour is fully escorted throughout by Andrew Pierce, Denver Botanic Gardens senior horticulture advisor, who was born in England.

For more information contact Betsy at Cherry Creek Travel, 320-1070, or Andrew Pierce, 370-8002.

The old
portico at the
far end of the
long walk at
Polesden
Lacey Garden



Edwardian
gardening
reached its
zenith at
Polesden
Garden.



May Splendor in Southern England • May 10-25, 1992

Land price includes 5 nights at the Stratton House Hotel in Cirencester, Gloucestershire; 4 nights at the Winston Manor Hotel in Crowborough, East Sussex; 5 nights at the Flemings Hotel in London, Mayfair District; 9 full English breakfasts; 9 dinners; 5 continental breakfasts; 5 lunches; Gala farewell dinner. Also included are travel by a small luxury coach, entrance fees to gardens and manors, tours of private gardens, portage, hotel tax and service charges.

The tour is fully escorted throughout by Andrew Pierce, Denver Botanic Gardens senior horticulture advisor, who was born in England. For more information contact Betsy at Cherry Creek Travel, 320-1070, or Andrew Pierce, 370-8002.

Payment Policy: The custom features of this trip are unique and will not be repeated. Since space is limited and the tour will fill quickly, your reservation must be accompanied by a deposit check in the amount of \$500 per person, payable to Cherry Creek Travel. Deposit payment must be received no later than December 13, 1991. Final payment is due March 1, 1992.

To reserve space for May Splendor in Southern England, return this registration form with your deposit check to:

Cherry Creek Travel • Attn: Betsy • 200 Fillmore Street, Suite 100 • Denver, Colorado 80206

Please reserve _____ places for May Splendor in Southern England, May 10-25, 1992.

A deposit check for _____ (\$500 per person) is enclosed.

Name _____ Member I.D. _____

Address _____

City _____ State _____ Zip _____

Phone _____ Spouse or roommates name _____

Single room: ☐ yes ☐ no • I prefer ☐ aisle ☐ window plane seat • Smoking: ☐ yes ☐ no

Credit Card # (for airfare only) _____ AX ☐ MC ☐ VISA

Exp. date _____ United Mileage plus number _____

Cost of tour:

\$ 3,020 Based on double occupancy

\$ 899 Group Airfare (Airfare subject to change)

\$ 538 Single supplement

Final payment due February 26, 1992.

Please make check payable to Cherry Creek Travel.

Mail to Cherry Creek Travel • Attn: Betsy • 200 Fillmore Street, Suite 100 • Denver, Colorado 80206



Denver Botanic Gardens

Denver Botanic Gardens and Chatfield Arboretum are established and maintained by Denver Botanic Gardens, Inc., for the people of the City and County of Denver and for the general public in cooperation with the Denver Parks and Recreation Department. Denver Botanic Gardens is also grateful for funds from the Scientific & Cultural Facilities District (SCFD), which enable the Gardens to expand services and enhance the quality of programs and exhibits.

Beeswax Candle Making

**Section I: Thursday, November 7
7 to 9 p.m.**

**Section II: Thursday, November 14
7 to 9 p.m.**

Visitor Center Chatfield Arboretum

Learn to make your own rolled beeswax candles for the holidays. You will find rolled beeswax candles are easy, fast and fun, and you will leave the class with an elegant product. All materials are provided.

Instructor: Bette Webb is a member of the International Guild of Candle Artisans and an enthusiastic teacher.

Fee: \$12 members/\$14 nonmembers (includes \$4 for materials)

Limit: 12

Harvest Style Flower Arranging

**Thursday, November 7
10 a.m. to 2 p.m.
Classroom B**

Create an arrangement of fall harvest materials to complement your Thanksgiving setting. Bring materials that you have gathered to personalize your arrangement. Also bring a lunch, flower snips, containers and a small bucket. A piece of floral foam or a needlepoint flower holder and wire cutters will also be useful.

Instructor: An experienced floral designer and teacher, Julia Dobbins has studied arranging in both the United States and England.

Fee: \$31 members/\$35 nonmembers (includes \$15 for materials)

Limit: 12

Unique Pestos

**Saturday, November 9
10 a.m. to noon
Polly Steele Nature Center
Chatfield Arboretum**

Basil pesto is a favorite among pasta lovers and gourmet cooks. By changing certain ingredients and using different herbs, this traditional favorite becomes new, unusual sauces. Learn how to make these culinary creations for pasta and other dishes. This class will show you how easy it is to cook with a touch of gourmet. Also, pesto sauces are great gifts for the holidays or anytime.

Instructor: Karen Winans Morgan is an intern in DBG's horticultural therapy program and accomplished at both herb gardening and cooking with herbs.

Fee: \$16 members/\$18 nonmembers (includes \$8 for materials)

Limit: 12

The Case of the African Violet

**Sunday, November 10
1 to 3:30 p.m.
Classroom B**

Learn basic African violet care: lighting, feeding, watering, temperature control, cleaning, soils, pests and propagation. You may also bring a few of your African violets to this hands-on workshop to learn why they won't grow—or why they have grown too tall.

Bring a clean, sharp knife and, if you wish, a pest-free plant or two from your own collection. The instructor will provide cuttings.

Instructor: Debbie Griffith has been growing African violets for 13 years. She is president of the Rocky Mountain African Violet Council and a show judge.

Fee: \$14 members/\$16 nonmembers (includes \$4 for materials)

Limit: 20

Tropical Houseplants

**Wednesdays, November 13 & 20
9 to 11:30 a.m.
Classroom B**

Many of the plants we have in our homes came from tropical rainforests. This class will introduce you to the habitats and cultural requirements of begonias, gesneriads, ferns, aroids (including anthuriums) and the forest succulents. In a hands-on session you will have the opportunity to learn how to propagate some of these plants and have a small plant to take home.

Instructor: DBG greenhouse supervisor Gary Davis has many years' experience with bromeliads, orchids and plants of the rainforest.

Fee: \$20 members/\$24 nonmembers (includes \$10 for materials)

Limit: 15

Attracting & Feeding Backyard Birds

**(two sessions)
Thursdays, November 14 & 21
6:30 to 9 p.m.
Morrison Center**

It's never too late to start feeding birds in your yard, but learn to avoid less desirable species, such as starlings and grackles and to encourage chickadees, nuthatches, siskins and others.

The preferred foods of specific species, proper location of feeders and houses, and where to buy good, cheap food will be covered. One session involves plantings, especially xeriscaping, you can add to your landscape to attract even more four-toed friends.

Instructor: Naturalist Tina Jones has birded throughout the United States and teaches bird identification and behavior classes.

Fee: \$10 members/\$12 nonmembers

Limit: 20

Autumn Lesson in Ikebana

**Section I: Saturday, November 16
9:30 to 11:30 a.m.**

**Section II: Wednesday, November 20
9:30 to 11:30 a.m.**

Morrison Center

Please indicate your section on the registration form.

This workshop is an introduction to Ikebana but also can serve as a refresher course for students who have completed the Beginning Ikebana class. Two arrangements will be completed in the workshop.

Please bring the following materials to class: two round or rectangular ceramic containers (no smaller than 12 inches long and two inches deep), two needlepoint flower holders (one that is two inches wide or larger), sharp clippers, small bucket or other container and notebook. Although flowers will be provided, students should bring their own line material (branches).

Instructor: Fran Wittgartner is past president of Ikebana International and has been presenting gardening and floral arranging programs for 16 years.

Fee: \$13 members/\$15 nonmembers (includes \$5 for materials)

Limit: 12

A Classic Tuscan Christmas Feast

**Sunday, November 17
12:30 to 4:30 p.m.**

Kitchen next to DBG Library

Surprise friends and family with a traditional Tuscan Christmas dinner. We will prepare an entire meal and then eat it ourselves, so come prepared with apron, cutting board and chef's knife for this very special feast.

Recipes will be provided for *crostata de feyatini* (chicken liver toasts), *tortellini al brodo*, roast hen with rosemary, Tuscan style lentils, rosemary oranges, poached pears in a red wine and *zabaibione* sauce, and *panetone* and *panforte*, traditional Tuscan Christmas cakes.

Instructor: An accomplished chef, caterer, food consultant, teacher and designer, Judith Fine-Sarchielli lived in Italy for 15 years.

Fee: \$43 members/\$52 nonmembers (includes \$25 for materials)

Limit: 12

Autumn
1991
Denver Botanic Gardens

CLASSES

10 Landscape Perennials for Colorado

**Mondays, November 18, 25 & December 9
7 to 9 p.m.
Morrison Center**

This class is designed to teach identification and characteristics of approximately 150 perennials, herbs and grasses listed in the Colorado Nurseryman Association's Certification Manual. This class will be of particular help to those seeking to take the CNA certification test. Although geared for professionals in the green industry, all serious gardeners are welcome.

Instructor: Kelly Drummons has Bachelor of Science degrees in both Landscape Horticulture and Floriculture from CSU and is head grower for Paulino Gardens.

Fee: \$24 members/\$29 nonmembers
Limit: 50

Pine Needle Ornaments

**Tuesday, November 19
6 to 9 p.m.
Classroom B**

Experience the delightful craft of making delicate lacy pine needle ornaments. You will learn simple patterns and receive basic instructions to develop your own unique ornaments. Please bring scissors. All materials will be provided.

Instructor: Debbie McClelland studied art education at Eastern Michigan University and has conducted many classes and demonstrations.

Fee: \$16 members/\$19 nonmembers (includes \$4 for materials)
Limit: 12

The Winter Herb Garden

**Wednesday, November 20
7 to 9 p.m.
Morrison Center**

The season for growing fresh herbs is nearly over—or is it? Just because summer is gone doesn't mean you have to stop cooking with fresh basil, chives, thyme and other herbs. Learn how to grow these herbs all through the winter to gain a head start on next summer. A winter herb garden makes a very special gift.

Instructor: Karen Winans Morgan
Fee: \$23 members/\$28 nonmembers (includes \$8 for materials)
Limit: 15

Wheat Christmas Ornaments

**Section I: Saturday, November 23
Section II: Saturday, December 7
10 a.m. to 3:30 p.m.
Morrison Center**
Please indicate your section on the registration form.

Learn to make ornaments from straw and wheat, a traditional Scandinavian craft of the holiday season. You will make snowflakes, wreaths, horses, angels and other unusual tree ornaments. The fee includes wheat for the six to seven ornaments that will be made in class as well as some to take home.

Please bring a ruler, scissors and a sack lunch to class.

Instructor: Maureen McGowen is a horticultural instructor and consultant who has taught various craft classes, including wheat weaving, at the Chicago Botanic Gardens and DBG.
Fee: \$28 members/\$34 nonmembers (includes \$6 for materials)
Limit: 10

Holiday Houseplants

**Tuesday, December 3
7 to 9 p.m.
Classroom C**

Holiday plants can be enjoyed well beyond December. Learn the proper care of cyclamens, poinsettias, anemones, azaleas, mums and Christmas cacti. You'll also learn about maintaining Norfolk Island pines and other indoor Christmas trees.

Bring a notebook for the many tips (you'll also receive handouts) and a large paper bag to protect the plant you will take home after class.

Instructor: Debra Harless is an enthusiastic teacher, with 10 years' experience in the floral industry

Fee: \$16 members/\$19 nonmembers (includes \$8 for materials)
Limit: 30

Winter Chores

**Tuesday, December 3
10 to 11:30 a.m.
Classroom A**

December, busy as it is with holiday preparations, is also a month that requires a little time in your garden. There are still projects that many of us haven't attended to. Learn how to correctly mulch plants to protect them from winter temperature fluctuations, how to prune and how to prepare your perennial borders. Other topics are salt damage to lawns, storm damage to woody plants and more.

Instructor: Andrew Pierce, senior horticulture advisor at the Gardens, is an accomplished grower of perennials and alpine plants. His garden at home has been featured in several national magazines.

Fee: \$6 members/ \$7.50 nonmembers

Evergreen Wreaths

**Section I: Wednesday, December 4
9 a.m. to noon
Section II: Wednesday, December 4
6 to 9 p.m.
Classroom B, both sessions**

Make your own wreath for the holidays using fresh evergreen materials. Concepts of designing with fresh materials will be taught. All materials will be supplied, however you are encouraged to bring materials from your yard to individualize your wreath.

Instructor: Fran Wittgartner

Fee: \$27 members/\$32 nonmembers (includes \$15 for materials)
Limit: 15

Citrus Marmalade

**Wednesday, December 4
6 to 9 p.m.
Morrison Center**

Remember the days when everything was homemade and everything tasted so good? Now we live in a world of convenience where homemade is greatly appreciated. Citrus marmalade takes little time or effort to prepare and tastes wonderful! Jars of citrus marmalade make great gifts and will always be appreciated.

Instructor: Karen Winans Morgan
Fee: \$24 members/\$29 nonmembers (includes \$10 for materials)
Limit: 15

Toys for Gardeners

**Saturday, December 7
9 to 11 a.m.
Classroom A**

A well stocked garden "shed"—whether it is your garage, basement or closet—is one that enhances your enjoyment of gardening. Just in time for list-making, hint-dropping and gift-giving, this class offers lots of ideas about handy items no gardener should be without. From trowels to heating mats, from seedling flats to DBG Gift Shop books and garden supplies, you will start the upcoming season with the necessary "toys".

Instructor: Judy Elliott is the coordinator of the DBG community gardens program and assists "Dr. Green" by answering gardening questions.
Fee: \$8 members/\$10 nonmembers
Limit: 20

Registration

Class fees must be paid in advance by credit card, check or money order made out to Denver Botanic Gardens. Phone registration will be accepted for credit card payment only. Space in many classes is limited. You will be enrolled in class the day your payment is received. All classes are subject to a minimum of ten students. For further information, please call 370-8020.

Garlic Basket

Sunday, December 8
11 a.m. to 3 p.m.
Morrison Center

Learn to make this simple open-weave basket just in time for last-minute gift-giving. Quick and easy to make, these decorative baskets are a great way to store your homegrown (or even store-bought) garlic and make an ideal gift for gardeners.

All materials will be provided. Please bring a sack lunch.
Instructor: Robin Taylor Daugherty is a fiber artist with considerable experience teaching. Her work is widely exhibited throughout Colorado.
Fee: \$21 members/\$25 nonmembers (includes \$5 for materials)
Limit: 15

For Kids: Pflanzenstein

Saturday, November 2
Section I: 9 to 11 a.m.
For ages 6 to 8
Section II: 12:30 to 2:30 p.m.
For ages 8 to 10
Classroom A

Make whole, living plants from parts; it's easy if you know what to do. This class goes beyond the avocado tree and is perfect for budding gardeners. Sprout seeds on sponges, grow new plants from old ones and learn about pups. Take home all the new plants you can carry.
Instructor: Carol Knepp has worked in the education department at DBG for eight years. She is currently studying elementary education and has taught at Gove Community School.
Fee: \$13 members/\$15 nonmembers (includes \$5 for materials)
Limit: 12

For Kids: Jungle Snoopers

Monday through Thursday,
November 11 to 14
9:30 to 11 a.m.
For ages 3 & 4
Classroom A

Students need to have had some pre-school experience and be toilet trained.
Explore the DBG conservatory and hear stories of forest and animal adventures. Taste tropical fruits and study jungle bugs. The stories will inspire drawing and painting.
Instructor: Linda Fogel has taught children's classes at the Gardens for three years. She brings a lively, creative approach to learning.
Fee: \$29 members/\$34 nonmembers (includes \$5 for materials)
Limit: 8

For Kids: Conservatory Stories

Saturday, November 9
Section I: 9 to 11:30 a.m.
For ages 6 to 8
Section II: 1 to 3:30 p.m.
For ages 9 to 11
Classroom A

Kids can explore the Garden's conservatory jungle while learning about rainforest ecology. There will also be an opportunity to plant a miniature rainforest to take home.
Instructors: Section I: Carol Knepp
Section II: Pattyanne Corsentino is a science teacher at Martin Luther King Jr. Middle School. She has received the Colorado Wildlife Federation 1990 Outdoor Educator of the Year award.
Fee: \$16 members/\$18 nonmembers (includes \$6 for materials)
Limit: 12

The DBG School of Botanical Illustration

Accredited by the University of Colorado
The School of Botanical Illustration offers a series of courses providing a comprehensive education in the scientific illustration of plants. Students have the opportunity to learn the techniques of many media, as well as focus on design and composition.
The School of Botanical Illustration is open to amateur, professional and student artists. You may choose to take courses without receiving college credit.
One college credit hour will be awarded for each pair of classes completed.
Instructors: Rob Proctor, author and illustrator, and Angela Overy, designer and illustrator, coordinate this program and teach most of the classes. Guest instructors Paula Nicholas,

Shari Jones, Michael Eagleton and Carolyn Crawford broaden the curriculum by teaching special skills.
Supplies: Specific supplies are required for each class. A list will be sent with your class confirmation. Additional supplies will be recommended by instructors throughout the courses.
Fee for each course: \$50 members /\$60 nonmembers for noncredit students. College credit for course fee is \$125 for Parts III and IV.
Limit: 20 each section

III. Beginning Botanical Watercolor

Tuesdays, December 3, 10, 17,
January 7, 14 & 21
Section I: 9:30 to 11:30 a.m.
Section II: 12:30 to 2:30 p.m.
Morrison Center

This class is an introduction to watercolor theory, color mixing and brush techniques for botanical illustration. Students will experiment with washes and drybrush techniques in transparent and opaque manners, and use watercolor and colored pencils to build accurate renderings of plants and flowers.

IV. Drawing Plants for Publication

Tuesdays, January 28, February 4, 11, 18, 25 & March 3
Section I: 9:30 to 11:30 a.m.
Section II: 12:30 to 2:30 p.m.
Morrison Center

Students will apply the skills learned in previous courses to draw plants for publication. Techniques include pen and ink, scratchboard, paste-up, layout, overlays and corrections. Students will learn to prepare illustrations for reduction and enlargement and learn lettering and printing techniques.



Registration Form for Classes, Field Trips and Lectures

Enclosed is \$ _____ for the following classes.
Name and section of classes:

Name _____

Member of Denver Botanic Gardens ☐ Yes ☐ No

Member ID _____
(on top line of newsletter address label)

Address _____

City _____ Zip code _____

Daytime Phone _____ Evening Phone _____

☐ Cash ☐ Check ☐ VISA ☐ MC

_____ Exp. _____

Signature _____

11

Class locations:
Classrooms A, B and C are at 1005 York Street, Denver.
The DBG Morrison Horticultural Demonstration Center is at 2320 East 11th Avenue, Denver.
Chatfield Arboretum is at 9201 South Carr Street, Littleton (south on Wadsworth Boulevard 0.3 mile past C-470, west onto Deer Creek Canyon Road).

NOVEMBER

Coming Up

Classes are in italics. Asterisk* indicates the first meeting of a class with more than one session.

November

- 1-3 Botanical Treasures
- 6 Carl Tempel Wildflower Lecture
- 7 *Beeswax Candle Making*
- 7 *Harvest Style Flower Arranging*
- 9 *Unique Pestos*
- 9 Paint the Rainforest—Kid's Mural Painting
- 10 *The Case of the African Violet*
- 13 * *Tropical Houseplants*
- 14 * *Attracting & Feeding Backyard Birds*
- 14 *Beeswax Candle Making*
- 15 Free Day
- 16 *Autumn Lesson in Ikebana*
- 17 *A Classic Tuscan Christmas Feast*
- 18 * *Landscape Perennials for Colorado*
- 19 *Pine Needle Ornaments*
- 20 *Autumn Lesson in Ikebana*
- 20 *The Winter Herb Garden*
- 23 *Wheat Christmas Ornaments*
- 22-23 DBG Gift Shop Pre-holidays Sale
- 28 Happy Thanksgiving!

December

- 3 *Holiday Houseplants*
- 3 *Winter Chores*
- 4 *Evergreen Wreaths*
- 4 *Citrus Marmalade*
- 7 *Teddy Bear Teas*



Blossoms of Light will transform the Gardens with "Holiday Magic" from December 7 through January 19.

'Aspen—Blazon of the High Country' Carl Tempel Wildflower Lecture Wednesday, November 6 • 7 p.m. • Free John C. Mitchell II Hall

Denver Botanic Gardens, Inc.

909 York Street
Denver, Colorado 80206
303-331-4000 • 370-8032 TDD

Address correction requested

TIME VALUE

November 1991

**Plant
Societies
at DBG**

Many plant and horticultural societies meet regularly at DBG. For their meeting times or to contact a representative of any group in which you are interested, call Denver Botanic Gardens during business hours: 331-4000, 370-8032 TDD.



Non Profit Org.
U.S. Postage
PAID
Permit No. 205
Denver, CO

***Blossoms of Light
Schedule of Activities***

Teddy Bear Teas
Saturdays, 1 & 3 p.m.

December 7
The Talking Teddy

December 14
Earl Reum

Herald the Season

Members' Party
Sunday, December 8, 4-7 p.m.

Evenings of Music, 7-9 p.m.

December 10
Gore Range Brass Quintet

December 12
Shorter A.M.E. Church
Inspirational Choir

December 17
Don Simon, magician

December 19
Last Note Singers

Green Thumb



NEWS

Denver Botanic Gardens
December 1991
Number 91-12

Music, Charity Blossom At the Gardens For the Holidays

Four evenings of music and entertainment will brighten your holidays this month during the annual Blossoms of Light celebrations at the Gardens.

And they will brighten the lives of others less fortunate, through donations of food that will be collected to distribute to the elderly poor: Each nonmember who brings an item of canned or dry packaged food to the Gardens on the evenings of the musical performances, will receive a \$1 discount on adult admission or a fifty cent discount on the gate fee for seniors and children 6 through 15. There is no additional charge for the musical performances.

Members, who enter the Gardens free, are also encouraged to join this drive for food, which will be distributed through agencies serving the poor.

The entertainment is by outstanding local groups. The Gore Range Brass Quintet will perform Tuesday, December 10; the Shorter A.M.E. Church Inspirational Choir will be here Thursday, December 12; magician Don Simon will dazzle you Tuesday, December 17; and the Last Note Singers, a large adult *a capella* choir, will close the series on Thursday, December 19. All performances are from 7 to 9 p.m. in John C. Mitchell II Hall.

The season is a time of magic, and this year's Blossoms of Light is themed "Holiday Magic." Enjoy the magic of the season not only through an opportunity to share, but through thousands of shimmering lights, creatively decorated Christmas trees and hundreds of poinsettias.

The outdoor lights will brighten the night and your imagination. The displays among the trees and lining the walkways of the Gardens were designed by Evergreen Specialty Co. and installed by Denver Botanic Gardens staff.

For your holiday enjoyment, the Gardens will be open evenings until 8 December 7 through January 19.

See the magic of the holidays through the eyes of children. Six trees in John C. Mitchell II Hall will be decorated with ornaments made and hung by students from metropolitan area schools. Represented will be Kemp Elementary, Adams County; Cherry Creek High School, Arapahoe County; University Park Elementary and Morey Middle School, Denver County;

Newton Middle School, Jefferson County and Kent Denver, a private school.

Children are also the focus of the annual Teddy Bear Teas. On Saturday, December 7, children will be entertained by The Talking Teddy and Saturday, December 14 by magician Earl Reum. Please see the flier in last month's Green Thumb News for registration information.

The Zoo, Too

DBG members are encouraged, also, to visit the Denver Zoo's holiday lighting display. "Wildlights" will feature whimsical storybook animals, garlands, wreaths and sculptures throughout the zoo grounds. It's open to the general public December 20 to 23 and 25 to 29.

Helpful volunteer servers make teatime at the Gardens a special holiday memory.



Inside:

From the Executive Director
page 2

Water Gardens Award
page 3

Free Day
page 3

Classes
pages 4-7

Coming Up
page 12

Tributes

**In honor of
the 50th Wedding Anniversary
of Fay & Chuck Schwayer**
Letty Weisbart

**In honor of the 102nd Birthday of
Ruth Porter Waring**
Ms. Jane Silverstein Ries

In memory of Olga Andersen
John, Deanie, Paul & Mara
Andersen
Mr. & Mrs. Melvin Engbar

In memory of Gertrude E. Ardel
Mr. C. W. Robinson, Jr.

In memory of Elinor Clarke
Herbert & Bea Jane Jones

In memory of Paul Honour
Herbert & Bea Jane Jones

In memory of George W. Kelly
Mrs. Harley G. Higbie, Jr.
Industrial Expositions, Inc.
Mrs. Leroy McWhinney
Mr. & Mrs. Richard M. Millard
Mr. & Mrs. Michael T. Nigbor
Ms. Jane Silverstein Reis
Ms. Viola L. Swingle
Mr. & Mrs. Fred C. Vetting, Jr.

**In memory of
Mrs. Carl (Ann) Keener**
Mr. & Mrs. Ken Gaunt

**In memory of
Mrs. John (Alfrieda) Mendenhall**
Mr. & Mrs. David Ferguson

In memory of Marjorie Shepherd
Solange G. Gignac

In memory of Ben M. Wayne
Herbert & Bea Jane Jones

In memory of Wallace E. Williams
Herbert & Bea Jane Jones

In memory of Beatrice H. Wolf
Anonymous

Employee of the Month

The accounting department's James Gleason, who has gone beyond the call of duty in terms of diligence, positive outlook, helpfulness and "can do" attitude, remaining unflappable no matter what task he is assigned, is the October employee of the month.

*A fern crosier
uncurls in the
winter warmth
of Boettcher
Memorial
Conservatory.*

From the Executive Director

Thinking about the values of botanic gardens in winter may seem somewhat anomalous. But, if you spend an hour walking the grounds enjoying the geometry of the trees and the winter colors or an afternoon in the Boettcher Conservatory surrounded by exotic tropical plants, such reflection may find a way into your consciousness as well.

Botanic gardens can show us the enormous diversity of plant life on Earth. More than a quarter-million kinds of plants share our planet with us, but some 60,000 are in danger of extinction. While most of those endangered plants are found only in the tropics, one in nine plants native to the United States is rare and hundreds are in imminent danger of extinction.

Denver Botanic Gardens, in conjunction with the Center for Plant Conservation, a consortium of 21 U.S. botanic gardens, is actively working to save almost two dozen plants native to the Rocky Mountains. Carol Dawson, our botanist on this program, has developed our conservation program into one of the finest among all U.S. botanic gardens.

But what does it mean to lose a plant species? It means fundamentally that the genetic make-up of the plant that has taken millions of years to evolve is lost forever. We can never reconstruct these genes and the world has forever lost this genetic resource and reduced our ecological system. This compels us to do all we can to preserve and protect our plant heritage.

The role of botanic gardens for 400 years has been the collection and display of the great diversity of life on Earth. Now we add to that the urgent role to help preserve our biological diversity and educate the public about all aspects of plant life. As we look to the New Year, our challenge is to be sure that Denver Botanic Gardens is a model for the display of our rich biologic heritage and a leader in conservation research and education. The support of members, donors and volunteers is vital to each of these programs.

—Richard H. Daley

Gardens Covered By Cable TV Show

Members who live within Denver are reminded to watch their cable TV channels for news on what's happening at the Gardens. "Denver This Week" provides entertaining and informative news and interviews on events and cultural activities in the metropolitan Denver area. The program often covers Denver Botanic Gardens.

It can be seen on Channels 28, 55 and 57. Call 640-8955 for information.

Kathryn Kawakami Honored by Colorado Women of Color

Kathryn Kawakami, who has shared uncountable hours at Denver Botanic Gardens helping to increase the understanding of Japanese art, culture and traditions, was honored October 30 by the Colorado Women of Color at their annual award ceremony at the Gardens. She was among four women recognized at the reception as key community leaders. Mrs. Kawakami has also volunteered for 30 years with schoolchildren in the Denver area, developing appreciation and acceptance of different peoples in our society.

"These women are respected elders and significant role models for the young women ... indeed all the young in our community," said Jonny Bearcub Stiffarm of the Native American group attending.

"By recognizing these women, Colorado Women of Color encourages all minority women to greater achievement in their communities and to build greater understanding in the wider community," added Martha Lee, convener for the Asian American group.

Annie Bettini, a classroom teacher and Ute tribal elder who has worked to preserve for her students the Ute language and culture; the late Goldie McCluster, a champion of the cultural, civic, family and spiritual activities of the African American community; and Carmel Belso, political activist and volunteer at Seton House, a Denver hospice for people with AIDS, were the

Green Thumb News Number 91-12 December 1991

**Published monthly by
Denver Botanic Gardens
909 York St., Denver, CO 80206.**

**Edited by Larry Latta, 370-8033
Deadline for February issue:
December 20**

Subscription to this newsletter is a benefit of membership in Denver Botanic Gardens. For information please write the membership department at the above address or call 370-8029, or 370-8032 TDD.

Denver Botanic Gardens and Chatfield Arboretum are established and maintained by Denver Botanic Gardens, Inc., for the people of the City and County of Denver and for the general public in cooperation with the Denver Parks and Recreation Department. Denver Botanic Gardens is also grateful for funds from the Scientific and Cultural Facilities District (SCFD), which enable the Gardens to expand services and enhance the quality of programs and exhibits.



Accredited by the
American Association
of Museums

DBG Water Gardens Awarded by International Society

For its unique contributions to water gardening, Denver Botanic Gardens has received the highest award by the International Water Lily Society. John Mirgon, member of the society, made the presentation at the September meeting of the Colorado Water Garden Society. It was only the second time the international group has issued its Appreciation Award.

The Gardens was recognized for playing a paramount role in the increased interest in water gardening locally, nationally and internationally. Its collection of hardy water lilies is considered to be the largest in North America on public display. Also, it was at the Gardens that CWGS, the world's first society concerned with growing water lilies and other aquatic and semi-aquatic plants, was formed in 1983. In 1987 DBG and CWGS co-hosted the successful 3rd International Water Lily Conference.

Members of the Colorado Water Garden Society continue to play a major role in the Gardens' outstanding display by operating the water plants division of the May Plant and Used Book Sale, hosting a fund-raising auction each June and helping with the Gardens' displays.

Colorado Free Day December 18

The Wednesday before Christmas is a free day at the Gardens for all Colorado residents. December 18 was set aside, in cooperation with the Denver City Council and the Scientific and Cultural Facilities District, to encourage residents to enjoy the Gardens' holiday decorations.



DBG water gardener Joe Tomocik and operations supervisor Gary Davis accepted the International Water Lily Society award on behalf of the Board of Trustees.

Be a Teddy Bear: Volunteer For Teas And Blossoms Music

You still have time to help the Gardens present an even cheerier Blossoms of Light celebration this year.

As anyone who has taken a child to the Saturday Teddy Bear Teas can testify, the parties are a happy day in a tot's December activities—perhaps second only to unwrapping presents. It takes the attention of volunteers to make these parties so memorable.

This year you can help brighten the season for the wide-eyed little visitors who will be bringing their teddy bears to tea and to see the Gardens' holiday decorations. Would you like to help serve refreshments? Call Patty Barnard, 771-4777.

If you're unable to contribute your time on Saturdays, how about Tuesday or Thursday evenings? Hosts and other workers are needed for the holiday music events. Call 370-8015 to volunteer.

Herald the Season

If you haven't sent in your reservation for Herald the Season, it may not be too late to join us for this members-only event. Call the membership office, 370-8029 for late registration details.

Share the Gardens: Give A Membership

You can share the Gardens with friends or family every day, all year long, by giving them thier own memberships in DBG. There are several categories of membership from which to choose.

A holiday membership form is included below for your convenience. For VISA/Mastercard orders, call the membership department at 370-8029. The recipients of your gift memberships will receive cards informing them of your thoughtfulness.

Holiday Gift Membership Form

☐ Family/Dual • \$35

☐ Senior (Age 65) • \$18

Please send a gift membership to: Name _____

Address _____

City _____ State _____ Zip _____ Home Phone _____

Sign gift card _____ Mail gift card to ☐ recipient ☐ to me, by (date) _____

Enclosed is ☐ cash ☐ my check for \$ _____ to Denver Botanic Gardens.

Charge gift membership to ☐ VISA ☐ MC # _____ Exp. _____

Donor's Name _____ Signature _____

Address _____

City _____ State _____ Zip _____ Home Phone _____

Recipients receive a card informing them of your gift, plus a free plant that may be picked up at the Gardens.

Mail to Denver Botanic Gardens, 909 York Street, Denver, CO 80206. For additional information call 303-370-8029.



Holiday Houseplants

Tuesday, December 3
7 to 9 p.m.
Classroom C

Holiday plants can be enjoyed well beyond December. Learn the proper care of cyclamens, poinsettias, anemones, azaleas, mums and Christmas cacti. You'll also learn about maintaining Norfolk Island pines and other indoor Christmas trees.

Bring a notebook for the many tips (you'll also receive handouts) and a large paper bag to protect the plant you will take home after class.

Instructor: Debra Harless is an enthusiastic teacher, with 10 years' experience in the floral industry.

Fee: \$16 members/\$19 nonmembers (includes \$8 for materials)

Limit: 30

Winter Chores

Tuesday, December 3
10 to 11:30 a.m.
Classroom A

December, busy as it is with holiday preparations, is also a month that requires a little time in your garden. There are still projects that many of us haven't attended to. Learn how to correctly mulch plants to protect them from winter temperature fluctuations, how to prune and how to prepare your perennial borders. Other topics are salt damage to lawns, storm damage to woody plants and more.

Instructor: Andrew Pierce, senior horticulture advisor at the Gardens, is an accomplished grower of perennials and alpine plants. His garden at home has been featured in several national magazines.

Fee: \$6 members/ \$7.50 nonmembers

Limit: 24

Evergreen Wreaths

Section I: Wednesday, December 4
9 a.m. to noon
Section II: Wednesday, December 4
6 to 9 p.m.
Classroom B, both sessions

Make your own wreath for the holidays using fresh evergreen materials. Concepts of designing with fresh materials will be taught. All materials will be supplied, however you are encouraged to bring materials from your yard to individualize your wreath.

Instructor: Fran Wittgartner is past president of Ikebana International and has been presenting gardening and floral arranging programs for 16 years.

Fee: \$27 members/\$32 nonmembers (includes \$15 for materials)

Limit: 15

Citrus Marmalade

Wednesday, December 4
6 to 9 p.m.
Morrison Center

Remember the days when everything was homemade and everything tasted so good? Now we live in a world of convenience where homemade is greatly appreciated. Citrus marmalade takes little time or effort to prepare and tastes wonderful! Jars of citrus marmalade make great gifts and will always be appreciated.

Instructor: Karen Winans Morgan is an intern in DBG's horticultural therapy program and accomplished at both herb gardening and cooking with herbs.

Fee: \$24 members/\$29 nonmembers (includes \$10 for materials)

Limit: 15

Toys for Gardeners

Saturday, December 7
9 to 11 a.m.
Classroom A

A well stocked garden "shed"—whether it is your garage, basement or closet—is one that enhances your enjoyment of gardening. Just in time for list-making, hint-dropping and gift-giving, this class offers lots of ideas about handy items no gardener should be without. From trowels to heating mats, from seedling flats to DBG Gift Shop books and garden supplies, you will start the upcoming season with the necessary "toys".

Instructor: Judy Elliott is the coordinator of the DBG community gardens program and assists "Dr. Green" by answering gardening questions.

Fee: \$8 members/\$10 nonmembers

Limit: 20

Garlic Baskets

Sunday, December 8
11 a.m. to 3 p.m.
Morrison Center

Learn to make this simple open-weave basket just in time for last-minute gift-giving. Quick and easy to make, these decorative baskets are a great way to store your homegrown (or even store-bought) garlic and make an ideal gift for gardeners.

All materials will be provided. Please bring a sack lunch.

Instructor: Robin Taylor Daugherty is a fiber artist with considerable experience teaching. Her work is widely exhibited throughout Colorado.

Fee: \$21 members/\$25 nonmembers (includes \$5 for materials)

Limit: 15

Winter Nature Walk

Sunday, December 15
1 to 3 p.m.
Visitor Center
(Deer Creek Schoolhouse)
Chatfield Arboretum

The entire family will enjoy this afternoon walk through the Arboretum. The serenity of winter and the starkness of the trees offers excellent opportunities to observe our winter residents. How plants and animals survive winter will also be explored.

Come prepared for the weather. Hot chocolate will be served in the nature center.

Instructor: Jim Trammell, the Arboretum's naturalist, will lead the walk.

Fee: \$8 members/\$10 nonmembers; children under 16 free

Limit: 20

Yuletide Centerpieces

Tuesday, December 17
5 to 7 p.m.
Classrooms A and C

Create your own showpiece for the holidays. Step-by-step instruction will result in a distinctive arrangement of greens, flowers and fruit. Indulge your unique flair to make a centerpiece for a holiday dinner, mantle or breakfront.

Bring scissors or snips; all materials will be provided.

Instructors: Rob Proctor and Angela Overy

Fee: \$28 members/\$34 nonmembers (includes \$20 for materials)

Limit: 50

Watercolor Painting

(six sessions)
Wednesdays, January 8, 15, 22, 29,
February 5 & 12
Section I: 9:30 a.m. to 12:30 p.m.
Section II: 6:30 to 9:30 p.m.
Classroom B

Please indicate your section on the registration form.

Explore the sparkle and delicacy of watercolor painting while you enjoy the beautiful setting of Denver Botanic Gardens.

This course will cover the basic materials and techniques of watercolors, emphasizing freedom of personal expression. Come prepared with supplies: a one-inch flat brush, #10 round brush, watercolor paper, tissues, container for water, plastic palette and cake or tube watercolors.

Instructor: Boris Shoshensky teaches drawing, watercolor and oil painting at Rocky Mountain College of Art and Design.

Fee: \$72 members/\$86 nonmembers

Limit: 12

The Art of Planting

(four sessions)

Wednesdays, January 8, 15, 22 & February 5

7 to 9 p.m.

Classroom C

Learn to combine the elements of the classic herbaceous border with the sensibilities of Front Range gardening. A long season of lush bloom results from working with our climate, not against it. By artistically combining the best plants for our region, from the classics to the newest introductions, we can create stunningly beautiful gardens. Anecdotes will take you on a personal tour of Rob Proctor's and Lauren Springer's distinctive gardens.

You may enroll for either the entire program or any individual session:

1. The Gardener's Palette—An exploration of color in the garden, Jan. 8.

2. The Textured Garden—Beyond color, emphasis on form and texture in the garden through artistic plant placement, Jan. 15.

3. Beauty in the Shade—Serene, graceful or exciting—shade offers opportunities, not limitations, Jan. 22.

4. The Year-Round Garden—Long-bloomers and foliage plants give lasting enjoyment and stretch the season, Feb. 5.

Instructors: Rob Proctor and Lauren Springer are nationally known horticultural writers. They write the weekly Front Range Gardeners column for *The Denver Post*. Rob's series of three books, *Antique Flowers*, is an international bestseller. Lauren has gardened professionally on both sides of the Atlantic.

Fee: \$32 members/\$38 nonmembers
Individual sessions: \$8 members/\$10 nonmembers

Limit: 50

Beginning Bonsai

(four sessions)

Thursdays, January 9, 16, 23, 30

7:30 to 9:30 p.m.

Classroom B

This introductory course will cover the history and culture of bonsai, as well as instruction on styling, training, potting and care of bonsai plants. Each student will take home a completed bonsai. All materials will be provided.

Instructors: Keith Jeppson, former president of the Rocky Mountain Bonsai Society, is an experienced bonsai hobbyist of 18 years. Harold Sasaki is a commercial bonsai grower of 19 years.

Fee: \$54 members/\$60 nonmembers (includes \$22 for materials)

Limit: 15



Small-flowered daffodils expand the gardener's spring palette.

Simple Bird Feeders

Saturday, January 11

1 to 3 p.m.

Visitor Center

(Deer Creek Schoolhouse)

Chatfield Arboretum

Fun for the whole family, parents can spend the afternoon with the kids making a simple bird feeder. The feeder can be taken home or left to hang at the arboretum. After a short program on feeding birds in winter, each child will make a bird feeder from recycled, reusable, and/or renewable resources. All materials will be provided.

Instructor: Jim Trammell will be assisted by volunteer naturalist-guides.

Fee: \$8 child member/ \$10 child non-member/adults free

Limit: 20 children

Bent-Willow Furniture Making

(three sessions)

Saturdays, January 11, 18 & 25

9 a.m. to Noon

Polly Steele Nature Center

Chatfield Arboretum

Learn the pioneer art of making furniture with supple, freshly cut branches of willow twigs. Willow twigs can be bent and shaped without breaking. The name "willow" comes from the flexible twigs. The first session you will learn where to find native willows. Selection of the proper size and length of twig is important in the construction of the different sections of the furniture. In the following sessions, the class will work together to make one simple piece of furniture which will be used at the arboretum.

Please dress appropriately for collecting willow branches at the first meeting. Bring sharp pruning shears and a hammer.

Instructor: Chris Hartung is the resident horticulturist at Chatfield Arboretum. He has made several pieces of willow furniture for his home.

Fee: \$40 members/\$47 nonmembers (includes \$4 for materials)

Limit: 12

Explore Chatfield Arboretum: History

Sunday, January 12

1 to 3 p.m.

Visitor Center

(Deer Creek Schoolhouse)

Chatfield Arboretum

Become acquainted with the history of Chatfield Arboretum. Study in an 1870s one-room schoolhouse and learn about the South Platte Valley's past 130 years. Visit Hildebrand Farm, an 1860s farm that is on the National Register of Historic Places.

Dress for walking outdoors as this behind-the-scenes tour will take you to the outbuildings.

Meet: Promptly at 1 p.m.

Leaders: Jim Trammell and Chatfield Arboretum's volunteer naturalist guides

Fee: \$8 members/\$10 nonmembers

Limit: 20

Hawks, Owls & Bald Eagles

(three sessions)

Tuesdays, January 14 & 28

6 to 9 p.m.

Sunday, February 2

8 a.m. to 2:30 p.m. (field trip)

Visitor Center

(Deer Creek Schoolhouse)

Chatfield Arboretum

Do you realize that many bald and golden eagles are found in the Denver-Boulder area during the winter? This beginners course will reveal specific raptor identification and behavior, beyond information usually found in field guides. Classroom sessions will cover detailed identification characteristics of Colorado birds of prey, including owls. Bring a bird field guide to the first class session.

Instructors: Naturalist Tina Jones has birded throughout the U.S. and teaches bird behavior and bird identification classes. Ann Bonnell, naturalist at Roxborough State Park, leads bird walks and is a former board director of Denver Field Ornithologists.

Fee: \$32 members/\$38 nonmembers

Limit: 20

Naturalist Guide Training Program

(ten sessions)

Thursdays, January 16, 23, 30,
February 6, 13, 20, 27,
March 5, 12 & 19

9 a.m. to noon

Visitor Center

(Deer Creek Schoolhouse)

Chatfield Arboretum

Chatfield Arboretum begins a new training class for volunteer naturalist guides to assist with the season's week-day tours.

Volunteers will receive 30 hours of instruction and gain experience in guiding groups during the 10 weeks. Guides will learn about the history, plants, animals and ecology of the arboretum. The arboretum contains a historic farm, a 19th century one-room school house (which serves as the Visitor Center), nature trails, wetlands and a nature center.

Upon graduation, you are asked to volunteer at least four hours a month. Volunteer guides lead discovery hikes and tours using the resources at the Arboretum.

Instructors: Jim Trammell and volunteer naturalist-guides

Fee: \$25 (includes training manual, *Boxelder* Newsletter, and a one-year membership in The Associates of Denver Botanic Gardens)

Limit: 25

Drawing from Nature

(six sessions)

Fridays, January 17, 24, 31,
February 7, 14 & 21

9:30 a.m. to noon

Classroom A

From living plants to still life settings, from realism to abstraction, learn to see, sketch and draw natural forms and then translate your black and white studies into exciting color. Instruction and demonstration are given in assorted media such as charcoal and pastels.

Bring a large sketch pad (14 x 17), soft vine charcoal and drawing pencils to the first class.

Instructor: Oksana Ross, Ph.D., is an artist and art historian. She has taught at the University of Colorado at Denver, Metropolitan State College and the Pratt Institute, New York University.

Fee: \$60 members/\$72 nonmembers

Limit: 20

Rose hips are some of the more easily identifiable winter fruits for beginning botanists.

Class locations:

Classrooms A, B and C are at 1005 York Street, Denver.

The DBG Morrison Horticultural Demonstration Center is at 2320 East 11th Avenue, Denver.

Chatfield Arboretum is at 9201 South Carr Street, Littleton (south on Wadsworth Boulevard 0.3 mile past C-470, west onto Deer Creek Canyon Road).

Xeriscaping Your Home: Principles of Design

(four sessions per section)

Section I: Saturdays, January 18, 25, February 1 & 8

8:30 a.m. to 12:30 p.m.

Section II: Saturdays, March 14, 21, 28, & April 4

8:30 a.m. to 12:30 p.m.

Section III: Tuesdays, April 7, 14, 21 & 28

6 to 10 p.m.

Visitor Center

(Deer Creek Schoolhouse)

Chatfield Arboretum

Please indicate your section on the registration form

This class stresses a do-it-yourself project using the seven basic fundamentals of xeriscaping. You will learn how to start and complete your own landscape plan which will be within your needs, desires, and budget.

You will consider reducing blue-grass areas, increasing ground covers, using low water plants, developing watering zones, selecting efficient irrigation systems, improving soil, using mulches, and planning other alternatives than rocks and gravel.

Instructor: Thomas L. Stephens is a landscape architect with many years of design and teaching experience. He is currently co-authoring a book: *Xeriscape: Common Sense Landscaping*.

Fee: \$74 members/\$87 nonmembers (includes \$10 materials fee)

Limit: 12

Botany for Beginners

(five sessions)

Saturdays, January 18, 25, February 1, 8 & 15

9:30 to 11:30 am

Classroom C

This course will provide a brief but thorough scientific introduction to plants: their structure, how they grow, physiology, ecology and how this relates to plants' growing requirements.

Living plant materials and microscope slides will be used, as well as an illustrated syllabus to serve as visual and hands-on aids.

Instructors: Moras L. Shubert, Ph.D., is professor emeritus of botany at the University of Denver. Paula Ogilvie is adult education specialist at the Gardens.

Fee: \$40 members/\$48 nonmembers

Limit: 30

Tropical Gleaming

(three sessions)

Tuesdays, January 21, 28 & February 4

7 to 9 p.m.

Classroom A

Ferns, philodendrons, crotons and gesnariads are some of the many plants you'll learn about in this new class. From how to properly pot and transplant indoor plants, to light and water requirements, you'll learn the ABC's of indoor plant care. There will also be a visit to the greenhouses for a behind-the-scenes look at the diversity of plants that can enliven your home.

Instructor: Andrew Pierce

Fee: \$24 members/\$29/ nonmembers

Limit: 30

Winter Botany

Section I: Saturday, January 25

Section II: Saturday, February 29
10 to 2 p.m.

Polly Steele Nature Center

Chatfield Arboretum

Please indicate your section on the registration form

Learn to recognize trees and shrubs without their leaves. Growth form, silhouette, winter fruit, twigs and bud characteristics will be used as aids in identification.

Participants will learn to use a winter plant key during both indoor and outdoor sessions.

Please bring a hand lens if you have one. Come dressed for the weather and bring a sack lunch.

Instructor: Vickey Trammell is a popular instructor at the Arboretum and has also taught at Arapahoe Community College, Roxborough State Park, Rocky Mountain Nature Association and the Colorado Division of Wildlife.

Fee: \$20 members/\$24 nonmembers (includes \$4 for materials)

Limit: 12



Cooking with Judith Fine-Sarchielli

(Please bring a small chef's knife, paring knife, apron and a cutting board if you wish to participate in the hands-on part of these classes.)

Instructor: An accomplished chef, caterer, food consultant, teacher and designer, Judith Fine-Sarchielli lived in Italy for 15 years.

Fee for each class: \$16.50 members/\$20 nonmembers (includes \$6.50 for materials)

Limit for each class: 12

• New Soups with Tuscan Herbs

Saturday, January 11

9:30 to Noon

Kitchen next to Mitchell Hall

Classic Tuscan Chicken Broth (*brodo*) serves as a basis for *Straciatella* (a delicate egg drop soup), *Polenta* and *Rapini* Soup and *Ministrina al Riso* (a hearty root vegetable soup). All of these may be served as entrees for a light and healthy meal.

• New Tuscan Fresh Pastas with Herb Sauces

Saturday, January 18

9:30 to Noon

Kitchen next to Mitchell Hall

Learn a delicate sage, nutmeg sauce, *Spaghetti alla Carbonara*, and *Pasta Paglia Fieno* (Straw and Hay Pasta) with a traditional and tasty sauce and other variations of these Tuscan favorites.

• Classic Tuscan Herb Sauces and Dried Pastas

Saturday, January 25

9:30 to Noon

Kitchen next to Mitchell Hall

The classic vegetarian tomato sauce will be presented, along with such variations as a tomato herb cream sauce, *Spaghetti alla Puttanesca*, and *Pasta Aglio Olio e Peperoncino* (Garlic, Chili Pepper Pasta).

The DBG School of Botanical Illustration

Accredited by the University of Colorado

The School of Botanical Illustration offers a series of courses providing a comprehensive education in the scientific illustration of plants. Students have the opportunity to learn the techniques of many media, as well as focus on design and composition.

The School of Botanical Illustration is open to amateur, professional and student artists. You may choose to take courses without receiving college credit.

One college credit hour will be awarded for each pair of classes completed.

Instructors: Rob Proctor, author and illustrator, and Angela Overy, designer and illustrator, coordinate this program and teach most of the classes. Guest instructors Paula Nicholas, Shari Jones, Michael Eagleton and Carolyn Crawford broaden the curriculum by teaching special skills.

Supplies: Specific supplies are required for each class. A list will be sent with your class confirmation. Additional supplies will be recommended by instructors throughout the courses.

Fee for each course: \$50 members/\$60 nonmembers for noncredit students. College credit for course fee is \$125 for Parts III and IV.

Limit: 20 each section

III. Beginning Botanical Watercolor

(six sessions)

Tuesdays, December 3, 10, 17, January 7, 14 & 21

Section I: 9:30 to 11:30 a.m.

Section II: 12:30 to 2:30 p.m.

Morrison Center

This class is an introduction to watercolor theory, color mixing and brush techniques for botanical illustration. Students will experiment with washes and drybrush techniques in transparent and opaque manners, and use watercolor and colored pencils to build accurate renderings of plants and flowers.

IV. Drawing Plants for Publication

(six sessions)

Tuesdays, January 28, February 4, 11, 18, 25 & March 3

Section I: 9:30 to 11:30 a.m.

Section II: 12:30 to 2:30 p.m.

Morrison Center

Students will apply the skills learned in previous courses to draw

plants for publication. Techniques include pen and ink, scratchboard, paste-up, layout, overlays and corrections. Students will learn to prepare illustrations for reduction and enlargement and learn lettering and printing techniques.

V. Botanical Illustration, Mixed Media

(six sessions)

Tuesdays, March 10, 24, 31, April 7, 14 & 21

Skip March 17

Section I: 9:30 to 11:30 a.m.

Section II: 12:30 to 2:30 p.m.

Morrison Center

Students will continue to work with the techniques already described, along with optional media such as pastels and acrylics to create a portfolio of botanical illustrations in color. The emphasis of this class is on accuracy, personal development and refinement, as well as proper matting and presentation of works.

VI. Advanced Botanical Illustration

(six sessions)

Tuesdays, April 28, May 5, 12, 19, 26 & June 2

Section I: 9:30 to 11:30 a.m.

Section II: 12:30 to 2:30 p.m.

Morrison Center

Students will continue to work in their choice of media and will be expected to produce a portfolio of the highest quality. The emphasis of the course is on personal growth and individualized instruction.

Registration

Class fees must be paid in advance by credit card, check or money order made out to Denver Botanic Gardens. Phone registration will be accepted for credit card payment only. Space in many classes is limited. You will be enrolled in class the day your payment is received. All classes are subject to a minimum of ten students. For further information, please call 370-8020.



Registration Form for Classes, Field Trips and Lectures

Enclosed is \$ _____ for the following classes.

Name and section of classes:

Name _____

Member of Denver Botanic Gardens ☐ Yes ☐ No

Member ID _____
(on top line of newsletter address label)

Address _____

City _____ Zip code _____

Daytime Phone _____ Evening Phone _____

☐ Cash ☐ Check ☐ VISA ☐ MC

_____ Exp. _____

Signature _____

DECEMBER

Coming Up

Classes are in italics. Asterisk* indicates the first meeting of a class with more than one session.

December

- 3 *Holiday Houseplants*
- 3 *Winter Chores*
- 3 **Beginning Botanical Watercolor*
- 4 *Evergreen Wreaths I & II*
- 4 *Citrus Marmalade*
- 7 *Toys for Gardeners*
- 7 Teddy Bear Teas: Talking Teddy
- 8 *Garlic Baskets*
- 7-31 Blossoms of Light
- 8 Herald the Season
- 10 An Evening of Music:
Gore Range Brass Quintet
- 12 An Evening of Music:
Shorter Church Inspirational Choir
- 14 Teddy Bear Teas: Earl Reum
- 15 *Winter Nature Walk*
- 17 *Yuletide Centerpieces*
- 17 An Evening of Magic:
Magician Don Simon
- 19 An Evening of Music:
Last Note Singers
- 25 Closed Christmas Day

January

- 1 Closed New Year's Day
- 2-19 Blossoms of Light

Visit the Bromeliad display in Marnie's Pavilion on a cold winter day.



Join Us for 'Herald the Season'
Sunday, December 8 • 4-7 p.m.
Holiday Decorations • Refreshments
Music • Children's Entertainment

Denver Botanic Gardens, Inc.

909 York Street
Denver, Colorado 80206
303-331-4000 • 370-8032 TDD

Address correction requested

TIME VALUE

December 1991

Non Profit Org.
U.S. Postage
PAID
Permit No. 205
Denver, CO

Plant Societies at DBG

Many plant and horticultural societies meet regularly at DBG. For their meeting times or to contact a representative of any group in which you are interested, call Denver Botanic Gardens during business hours: 331-4000, 370-8032 TDD.

